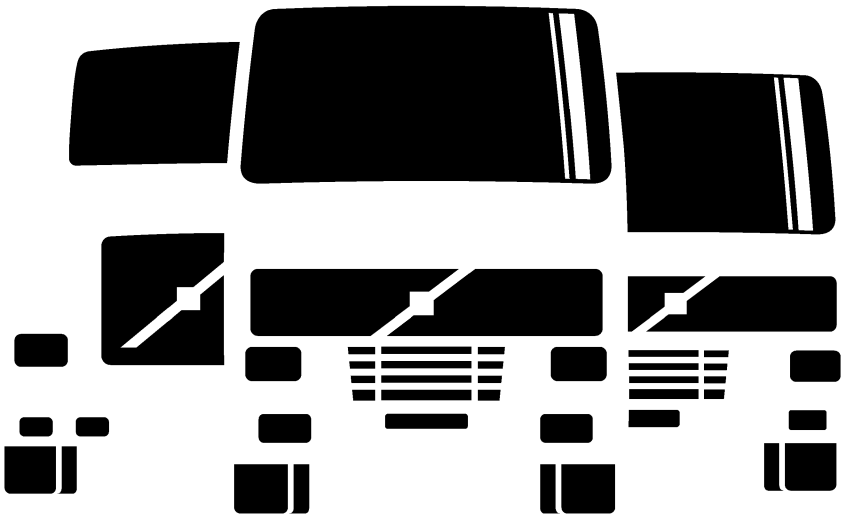
Service Manual
Trucks

Group **37**

Electrical Schematic
VN, VHD VERSION2
From Build Date Nov. 2002



PV776-TSP187158

VOLVO

Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to August 2003.

The products are under continuous development. Vehicles and components produced after the above date may therefore have different specifications and repair methods. When this is believed to have a significant bearing on this manual, supplementary service bulletins will be issued to cover the changes.

The new edition of this manual will update the changes.

In service procedures where the title incorporates an operation number, this is a reference to an V.S.T. (Volvo Standard Times).

Service procedures which do not include an operation number in the title are for general information and no reference is made to an V.S.T.

The following levels of observations, cautions and warnings are used in this Service Documentation:

Note: Indicates a situation, handling or circumstance which should be observed.

Caution: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or damage to property.

Warning: Indicates a potentially hazardous situation which, if not avoided, could result in death, serious injury or major damage to property.

Danger: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

Volvo Trucks North America, Inc.
Greensboro, NC USA

Order number: PV776-TSP187158

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Feedback

VN, VHD

Electrical Schematics

For instructions on using the schematics, see service information on “Wiring Diagram User Guide” in Group 37.

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“Reference List: Inline Connectors” page 150
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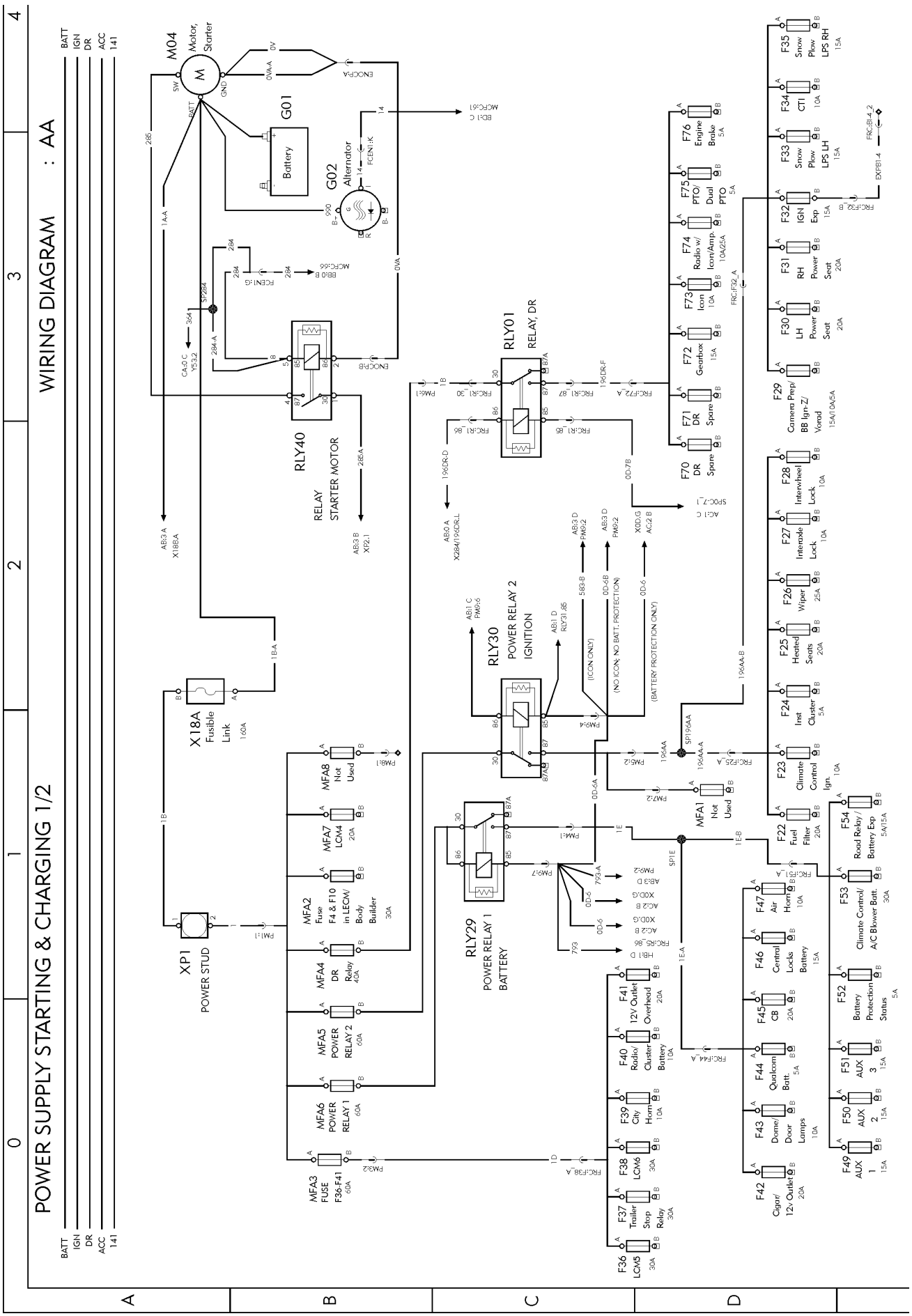
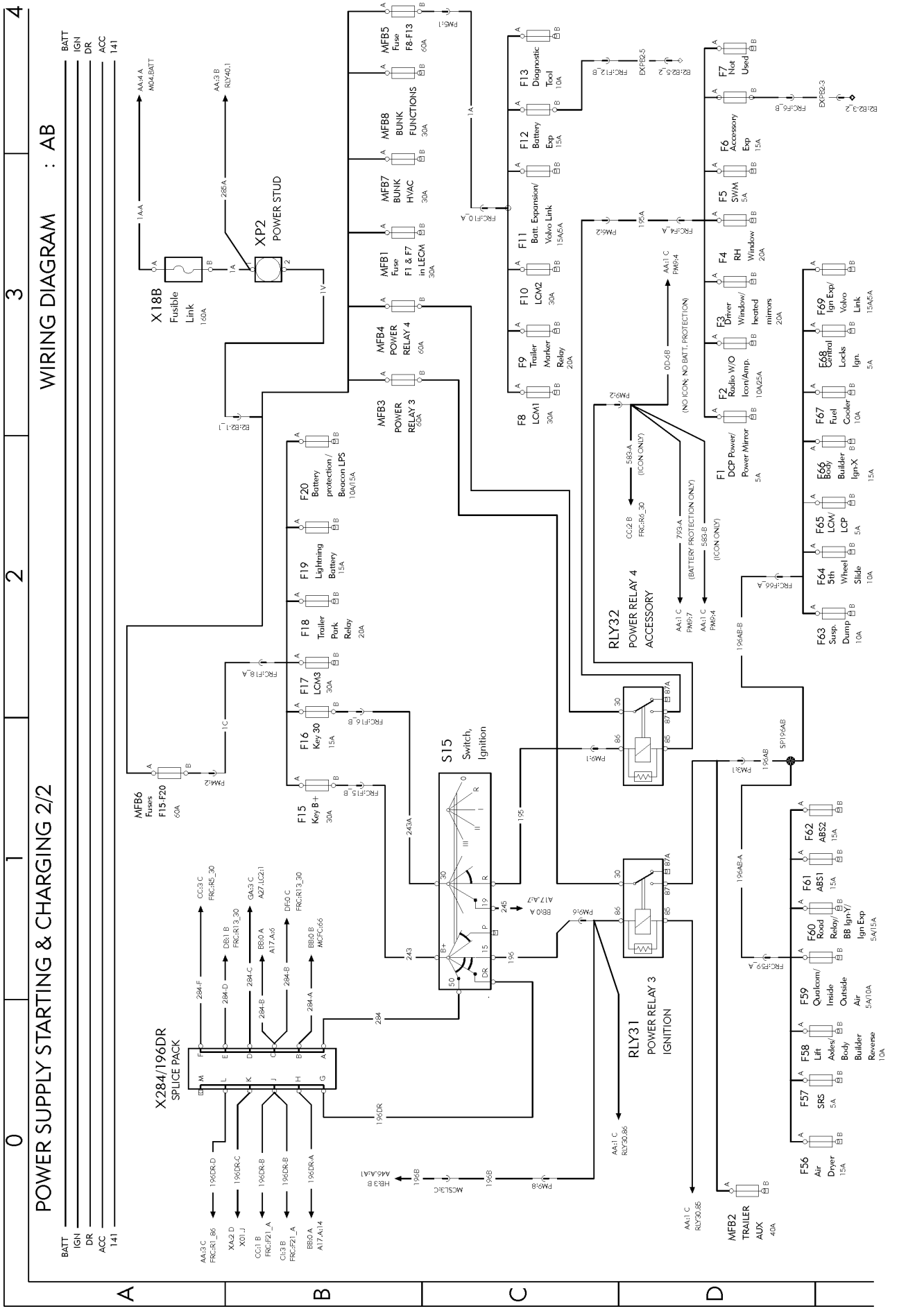
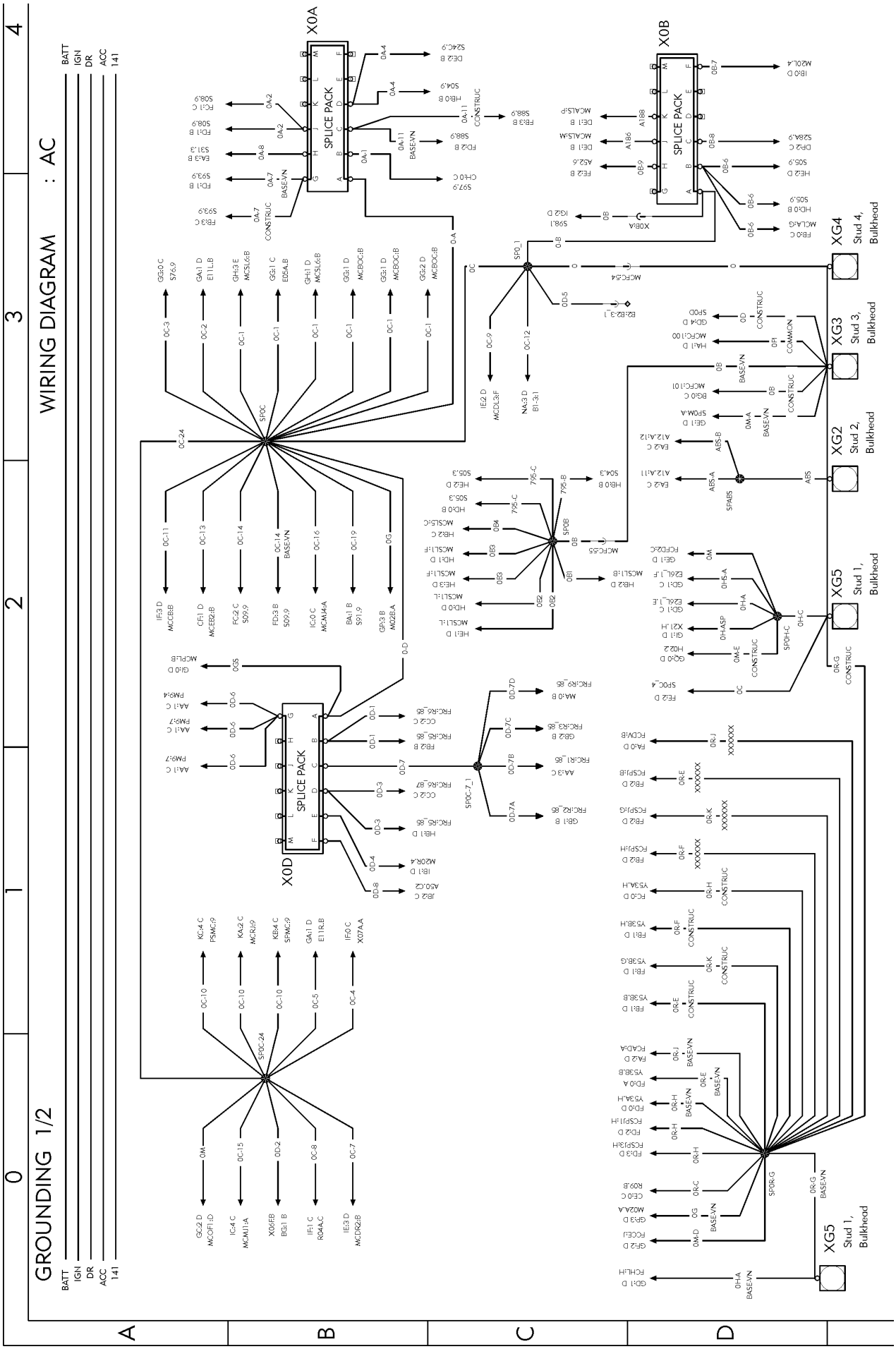
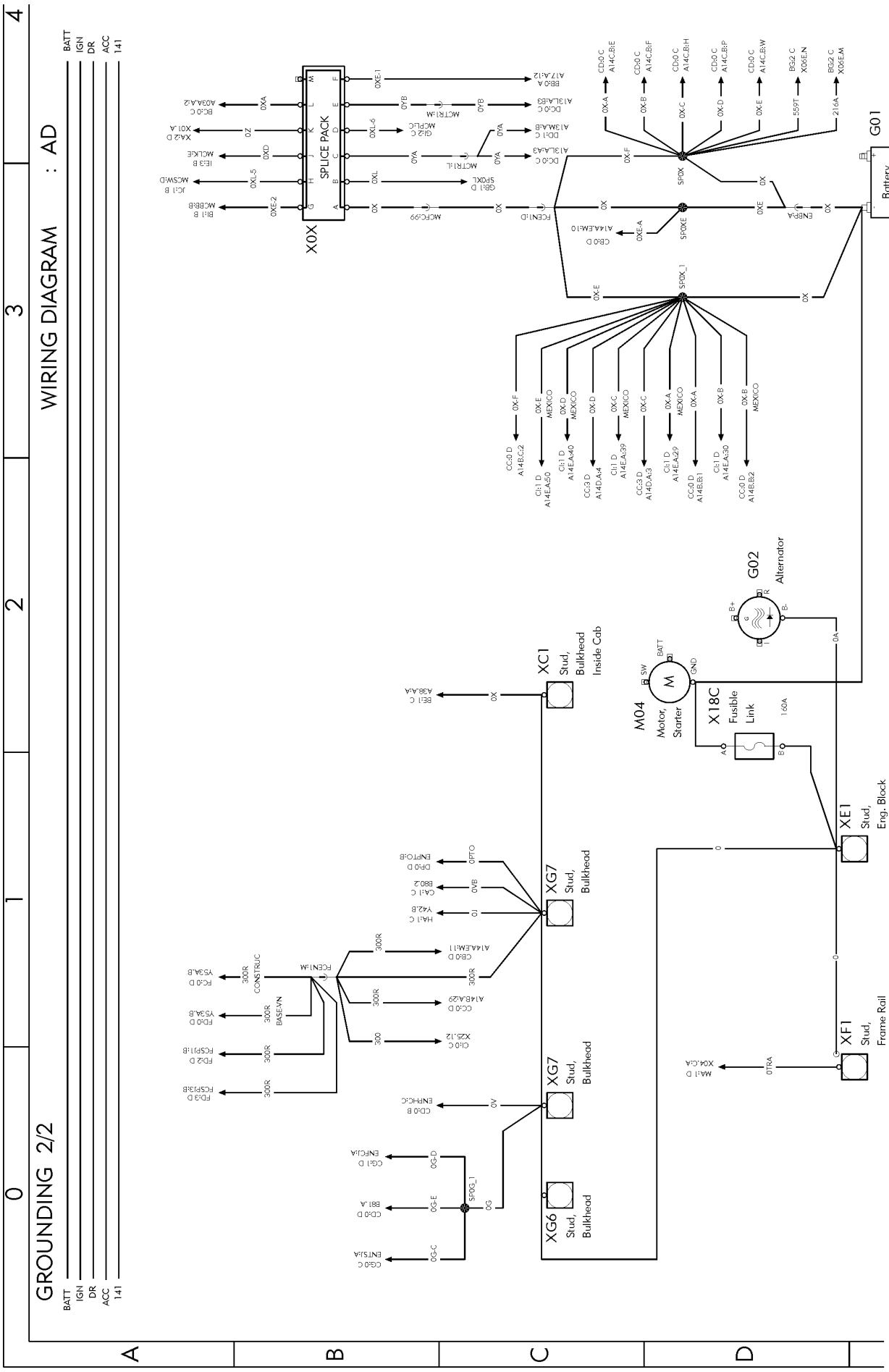
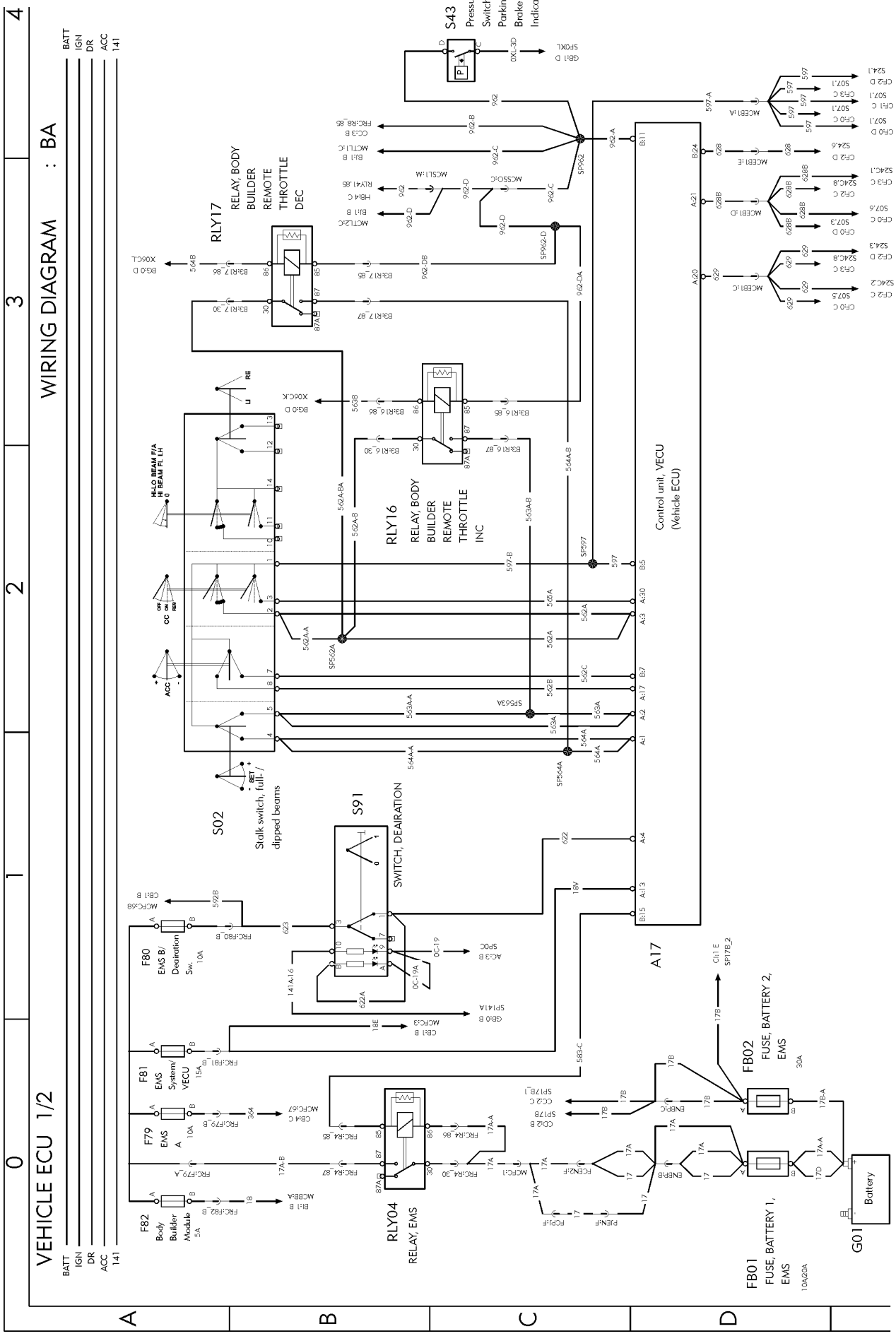
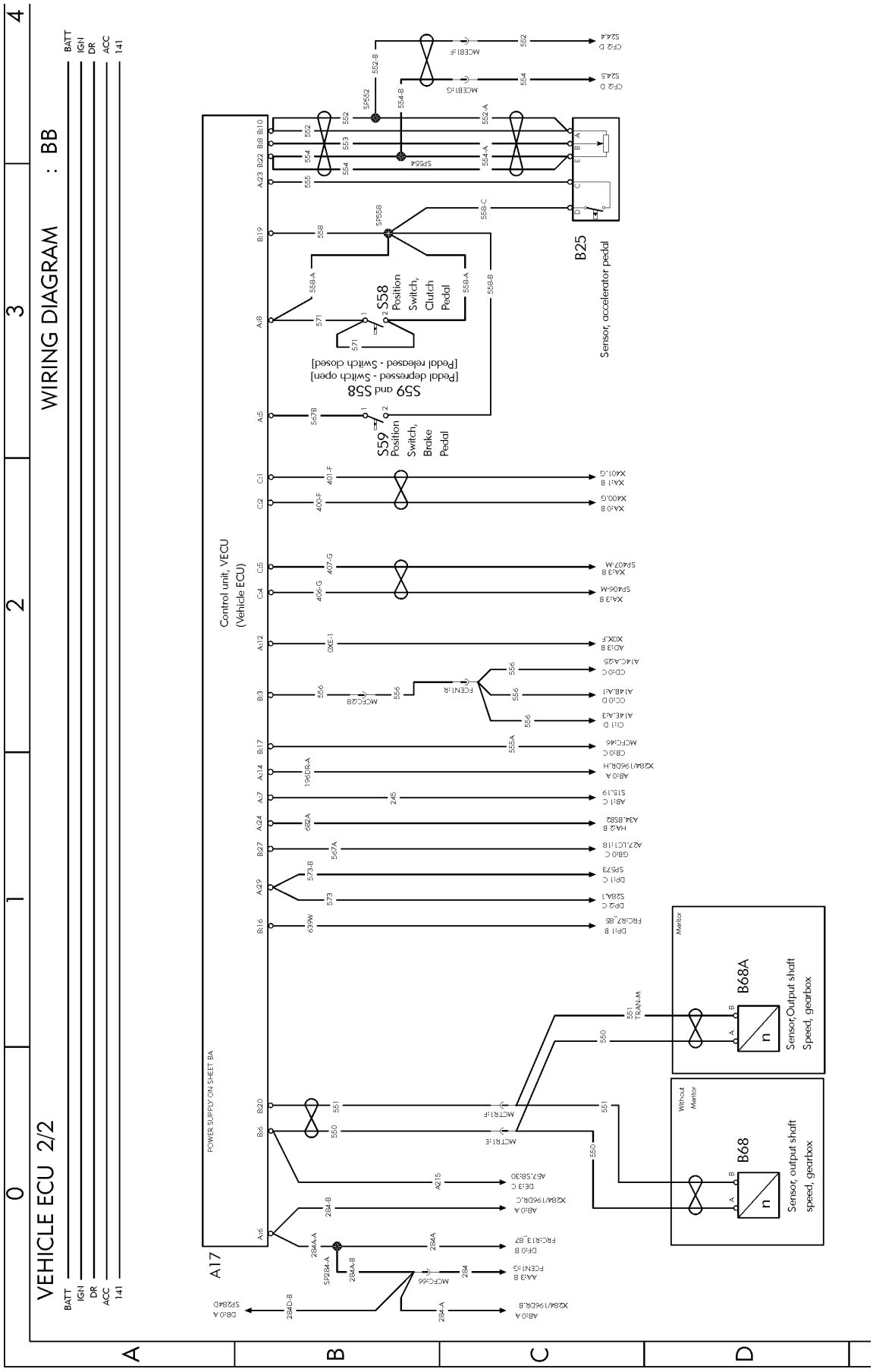

POWER SUPPLY STARTING & CHARGING 1/2
WIRING DIAGRAM : AA
BATT
IGN
DR
ACC
141
M04
Motor, Starter
G01
Battery
G02
Alternator
RLY40
RELAY STARTER MOTOR
RLY01
RELAY, DR
RLY30
POWER RELAY 2 IGNITION
RLY29
POWER RELAY 1 BATTERY
X18A
Fusible Link
160A
XP1
POWER STUD
MFA1 Not Used
MFA2 Fuse F4 & F10 in LECM/ Body Builder 30A
MFA3 FUSE F36-F41 60A
MFA4 DR Relay 40A
MFA5 POWER RELAY 2 60A
MFA6 POWER RELAY 1 60A
MFA7 LCM4 20A
MFA8 Not Used
F22 Fuel Filter 20A
F23 Climate Control Ign. 10A
F24 Inst Cluster 5A
F25 Heated Seats 20A
F26 Wiper 25A
F27 Interaxle Lock 10A
F28 Interwheel Lock 10A
F29 Camera Prep/ BB Ign-Z/ Vorad 15A/10A/5A
F30 LH Power Seat 20A
F31 RH Power Seat 20A
F32 IGN Exp 15A
F33 Snow Plow LPS LH 15A
F34 CTI 10A
F35 Snow Plow LPS RH 15A
F36 LCM5 30A
F37 Trailer Stop Relay 30A
F38 LCM6 30A
F39 City Horn 10A
F40 Radio/ Cluster Battery 10A
F41 12V Outlet Overhead 20A
F42 Cigar/ 12v Outlet 20A
F43 Dome/ Door Lamps 10A
F44 Qualcomm Batt. 5A
F45 CB 20A
F46 Central Locks Battery 15A
F47 Air Horn 10A
F49 AUX 1 15A
F50 AUX 2 15A
F51 AUX 3 15A
F52 Battery Protection Status 5A
F53 Climate Control/ A/C Blower Batt. 30A
F54 Road Relay / Battery Exp 5A/15A
F70 DR Spare
F71 DR Spare
F72 Gearbox 15A
F73 Icon 10A
F74 Radio w/ Icon/Amp 10A/25A
F75 PTO/ Dual PTO 5A
F76 Engine Brake 5A
FRC-F2_A
FRC-F2-2_A
FRC-B4-2
EXP-B1-4

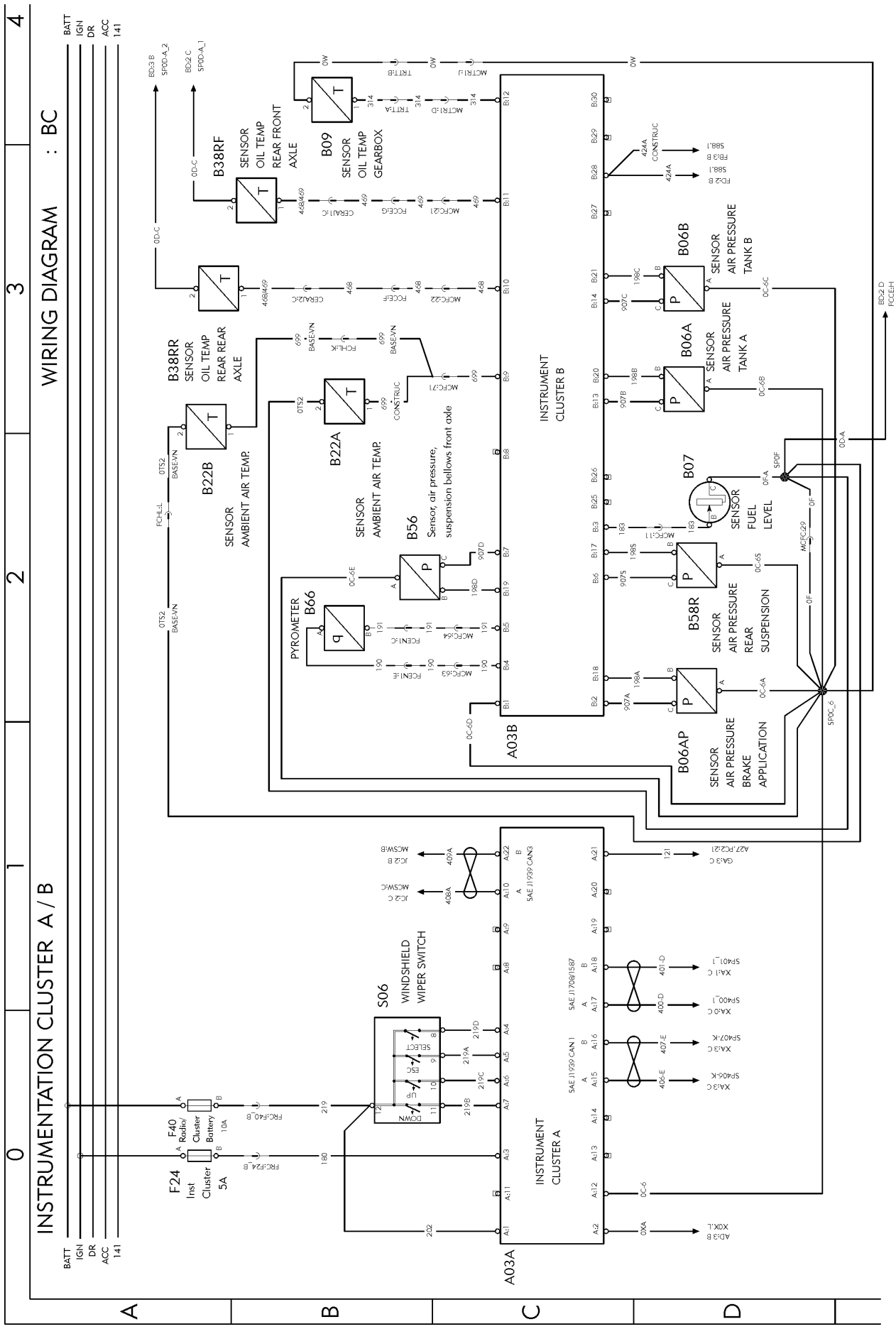

POWER SUPPLY STARTING & CHARGING 2/2
WIRING DIAGRAM : AB
BATT
IGN
DR
ACC
141
X18B
Fusible Link 160A
XP2
POWER STUD
MFB1 Fuse F1 & F7 in LECM 30A
MFB3 POWER RELAY 3 60A
MFB4 POWER RELAY 4 60A
MFB5 Fuse F8-F13 60A
MFB6 Fuses F15-F20 60A
MFB7 BUNK HVAC 30A
MFB8 BUNK FUNCTIONS 30A
MFB2 TRAILER AUX 40A
F1 DCP Power/ Power Mirror 5A
F2 Radio W/O Icon/Amp. 10A/25A
F3 Driver Window/ heated mirrors 20A
F4 RH Window 20A
F5 SWM 5A
F6 Accessory Exp 15A
F7 Not Used
F8 LCM1 30A
F9 Trailer Marker Relay 20A
F10 LCM2 30A
F11 Batt. Expansion/ Volvo Link 15A/5A
F12 Battery Exp 15A
F13 Diagnostic Tool 10A
F15 Key B+ 30A
F16 Key 30 15A
F17 LCM3 30A
F18 Trailer Park Relay 20A
F19 Lightning Battery 15A
F20 Battery protection / Beacon LPS 10A/15A
F56 Air Dryer 15A
F57 SRS 5A
F58 Lift Axles/ Body Builder 5A
F59 Qualcom/ Inside Outside Air Reverse 5A/10A
F60 Road Relay/ BB Ign Exp 5A/15A
F61 ABS1 15A
F62 ABS2 15A
F63 Susp. Dump 10A
F64 5th Wheel Slide 10A
F65 LCM/ LCP 5A
F66 Body Builder Ign-X 15A
F67 Fuel Cooler 10A
F68 Central Locks Ign. 5A
F69 Ign Exp/ Volvo Link 15A/5A
RLY31 POWER RELAY 3 IGNITION
RLY32 POWER RELAY 4 ACCESSORY
S15 Switch, Ignition
X284/196DR SPLICE PACK

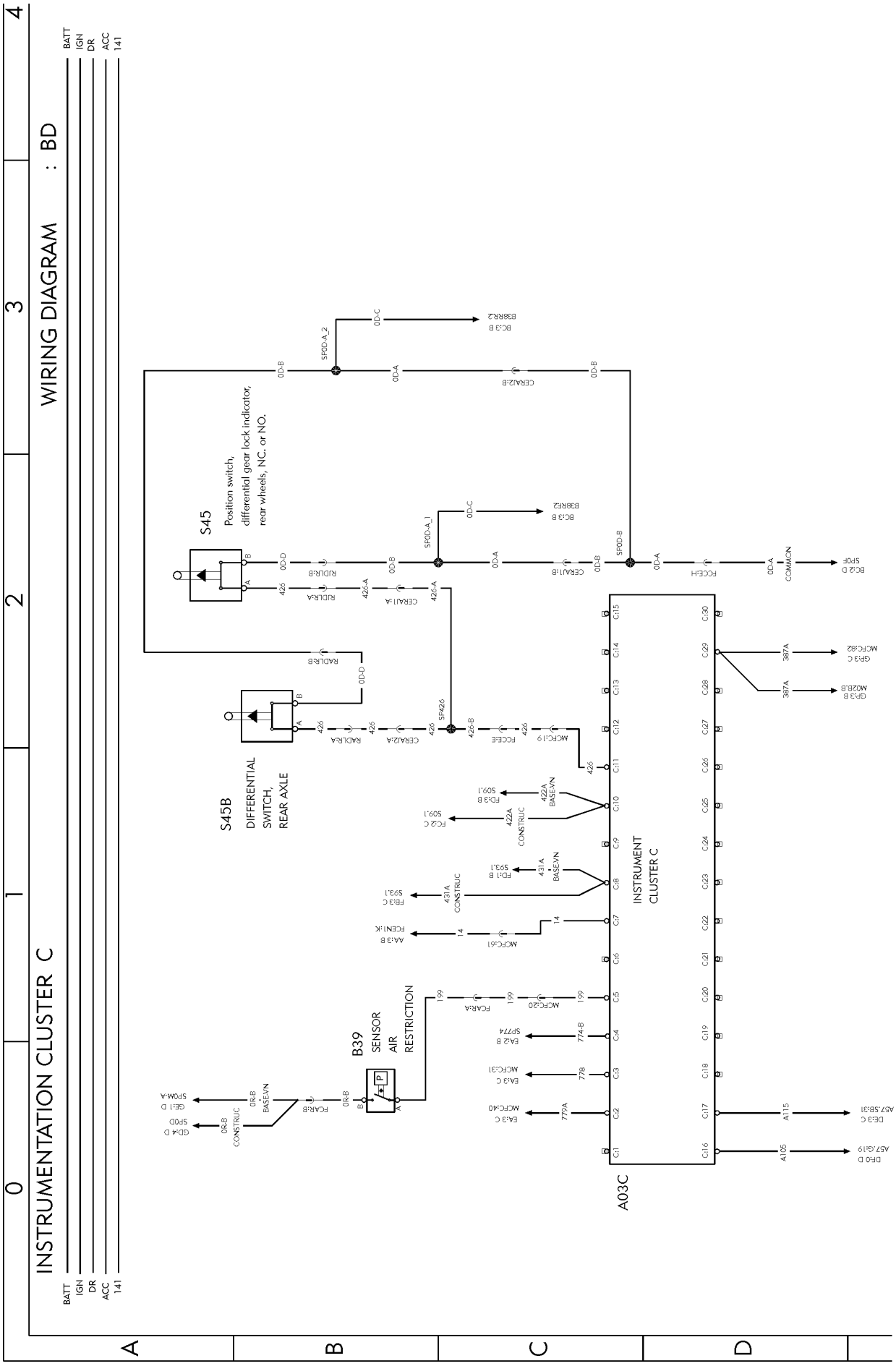

WIRING DIAGRAM : AC
GROUNDING 1/2
BATT
IGN
DR
ACC
141
X0A
X0B
X0D
SPLICE PACK
XG1
Stud 1, Bulkhead
XG2
Stud 2, Bulkhead
XG3
Stud 3, Bulkhead
XG4
Stud 4, Bulkhead
XG5
Stud 1, Bulkhead
SP0C
SP0_1
SP0C_24
SP0C_7_1
SP0B
SP0A
SP0H-C
SP0R-G
SPABS
BASE-VN
CONSTRUC
COMMON

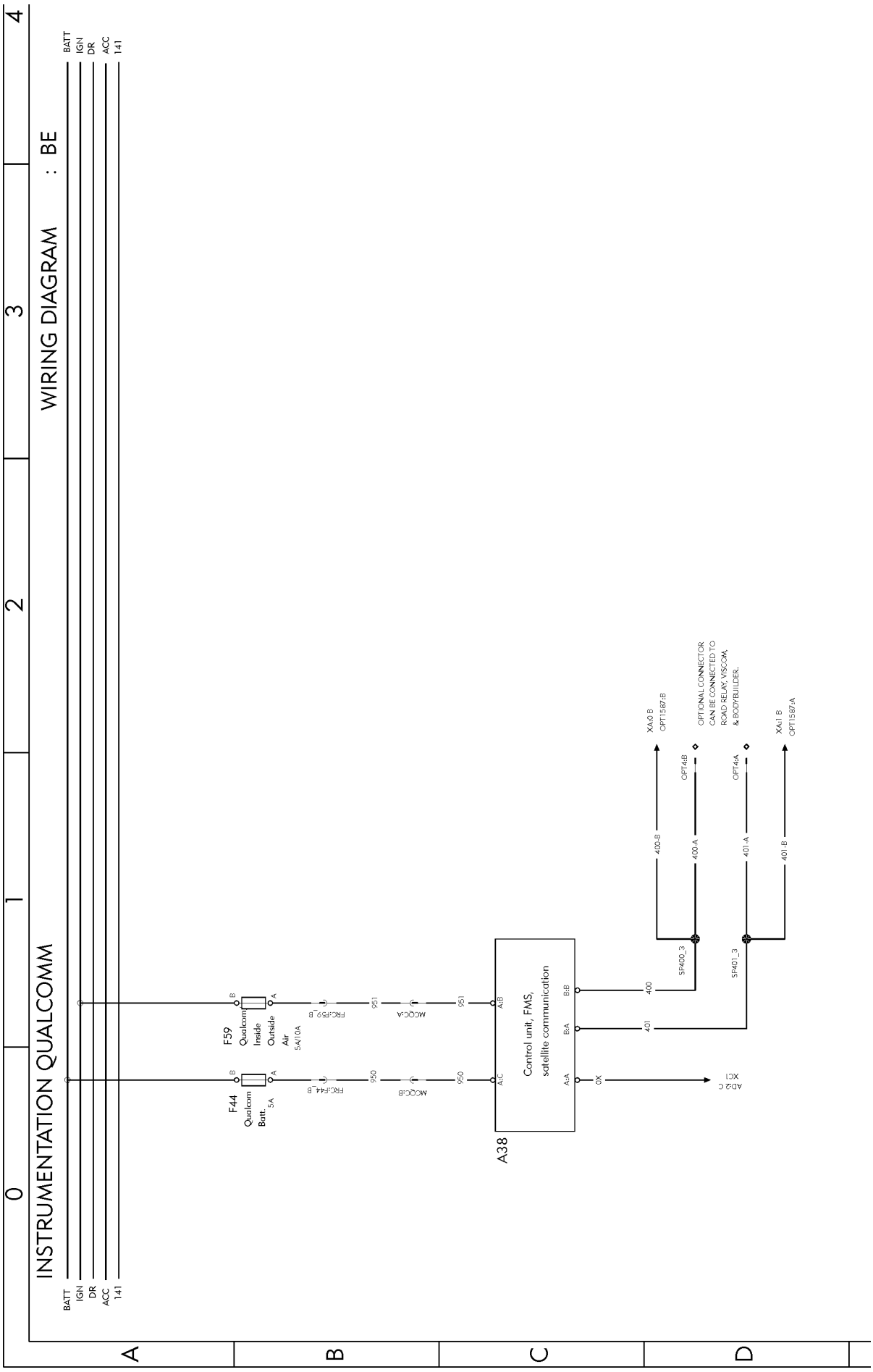

GROUNDING 2/2
WIRING DIAGRAM : AD
BATT
IGN
DR
ACC
141
0
1
2
3
4
A
B
C
D
X0X
SPLICE PACK
G01
Battery
G02
Alternator
M04
Motor, Starter
X18C
Fusible Link
160A
XC1
Stud, Bulkhead Inside Cab
XG7
Stud, Bulkhead
XG6
Stud, Bulkhead
XE1
Stud, Eng. Block
XF1
Stud, Frame Rail

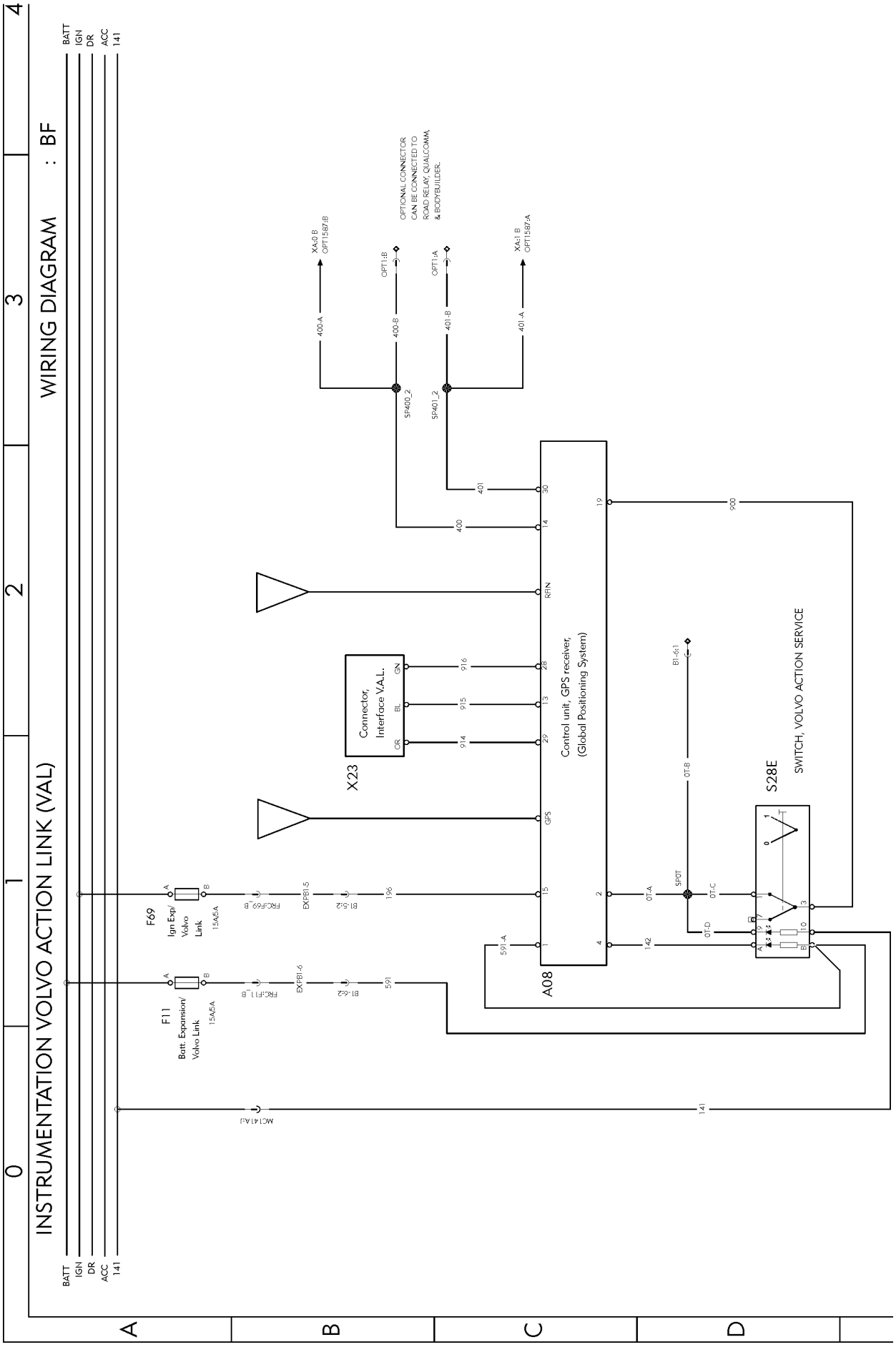

VEHICLE ECU 1/2
WIRING DIAGRAM : BA
BATT
IGN
DR
ACC
141
S43
Pressure Switch, Parking Brake Indicator
RLY17
RELAY, BODY BUILDER REMOTE THROTTLE DEC
RLY16
RELAY, BODY BUILDER REMOTE THROTTLE INC
S02
Stalk switch, full-/ dipped beams
S91
SWITCH, DEAIRATION
Control unit, VECU (Vehicle ECU)
A17
F80 EMS B/ Deairation Sw. 10A
F81 EMS System/ VECU 15A
F79 EMS A 10A
F82 Body Builder Module 5A
RLY04
RELAY, EMS
FB02 FUSE, BATTERY 2, EMS 30A
FB01 FUSE, BATTERY 1, EMS 10A/20A
G01 Battery
HI-LO BEAM F/A
HI BEAM FL LH
CC ON RES
Acc
SET
RE

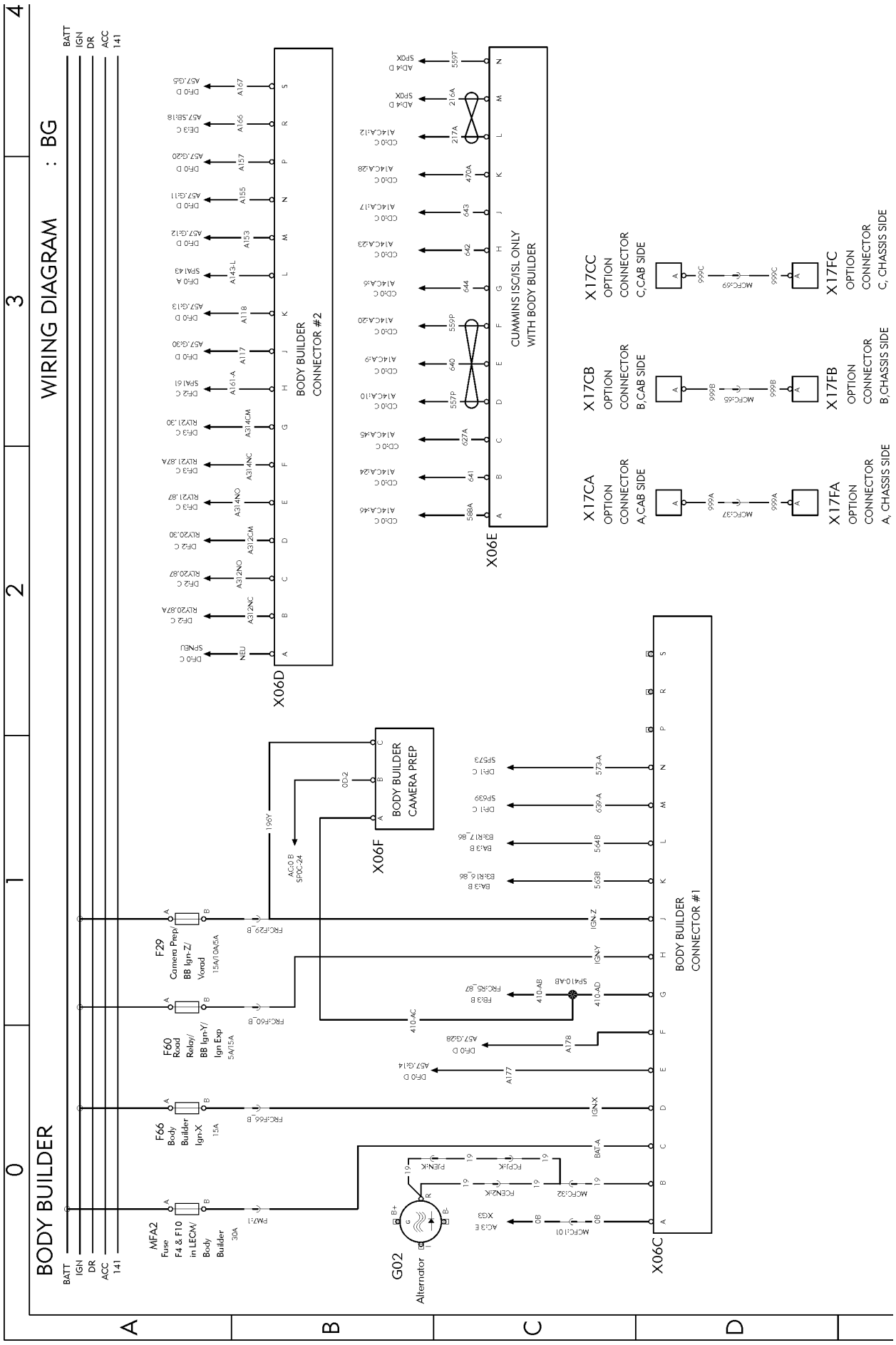

VEHICLE ECU 2/2
WIRING DIAGRAM : BB
BATT
IGN
DR
ACC
141
A17
Control unit, VECU
(Vehicle ECU)
POWER SUPPLY ON SHEET BA
B25
Sensor, accelerator pedal
S58 Position Switch, Clutch Pedal
S59 and S58
[Pedal depressed - Switch open]
[Pedal released - Switch closed]
S59 Position Switch, Brake Pedal
B68A
Sensor,Output shaft Speed, gearbox
B68
Sensor, output shaft speed, gearbox
Mentor
Without Mentor

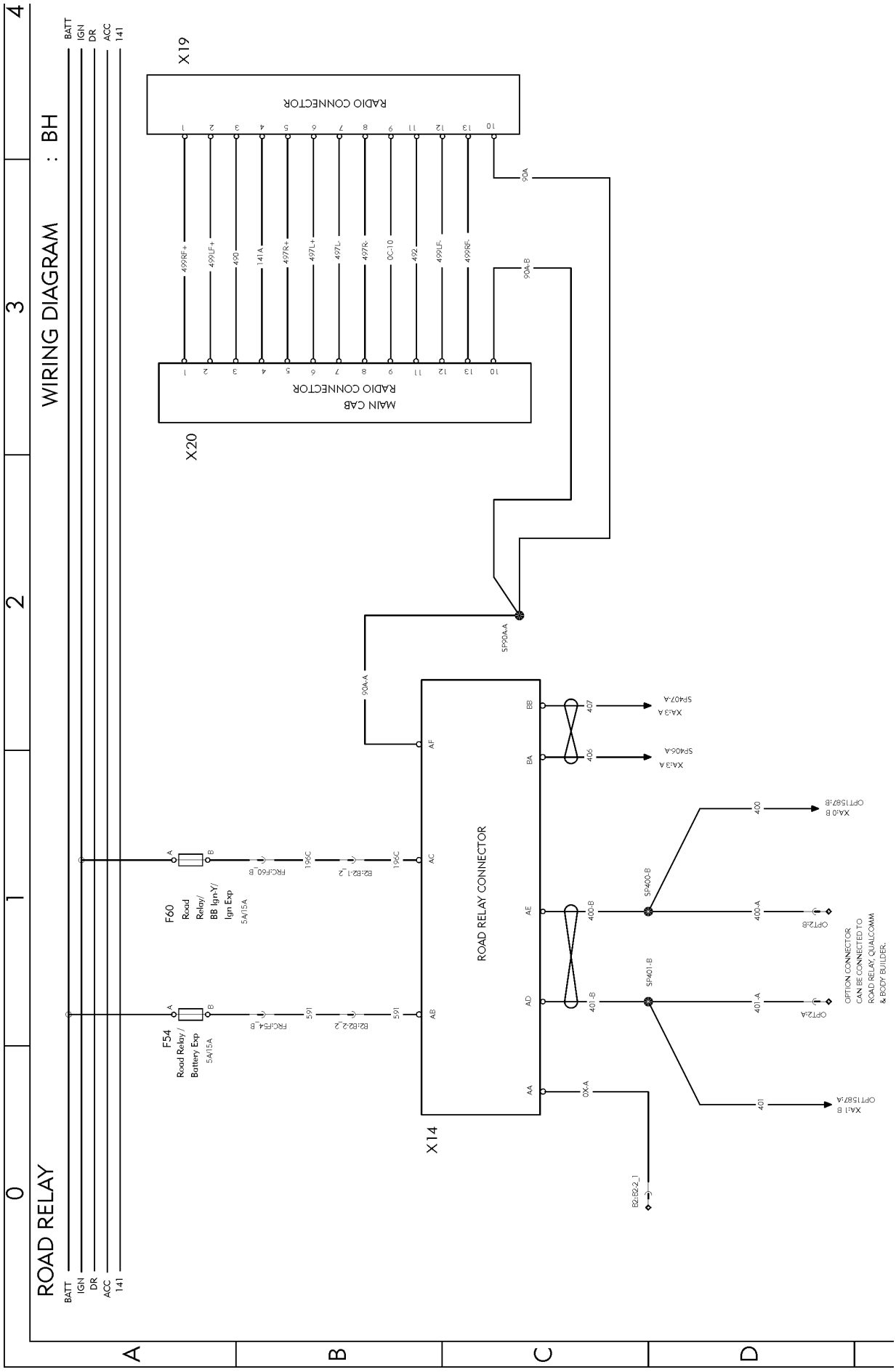

INSTRUMENTATION CLUSTER A / B
WIRING DIAGRAM : BC
BATT
IGN
DR
ACC
141
A03A
INSTRUMENT CLUSTER A
A03B
INSTRUMENT CLUSTER B
F24 Inst Cluster 5A
F40 Radio/ Cluster Battery 10A
S06 WINDSHIELD WIPER SWITCH
B22B SENSOR AMBIENT AIR TEMP.
B22A SENSOR AMBIENT AIR TEMP.
B38RR SENSOR OIL TEMP REAR REAR AXLE
B38RF SENSOR OIL TEMP REAR FRONT AXLE
B09 SENSOR OIL TEMP GEARBOX
B56 Sensor, air pressure, suspension bellows front axle
B66 PYROMETER
B07 SENSOR FUEL LEVEL
B58R SENSOR AIR PRESSURE REAR SUSPENSION
B06AP SENSOR AIR PRESSURE BRAKE APPLICATION
B06A SENSOR AIR PRESSURE TANK A
B06B SENSOR AIR PRESSURE TANK B

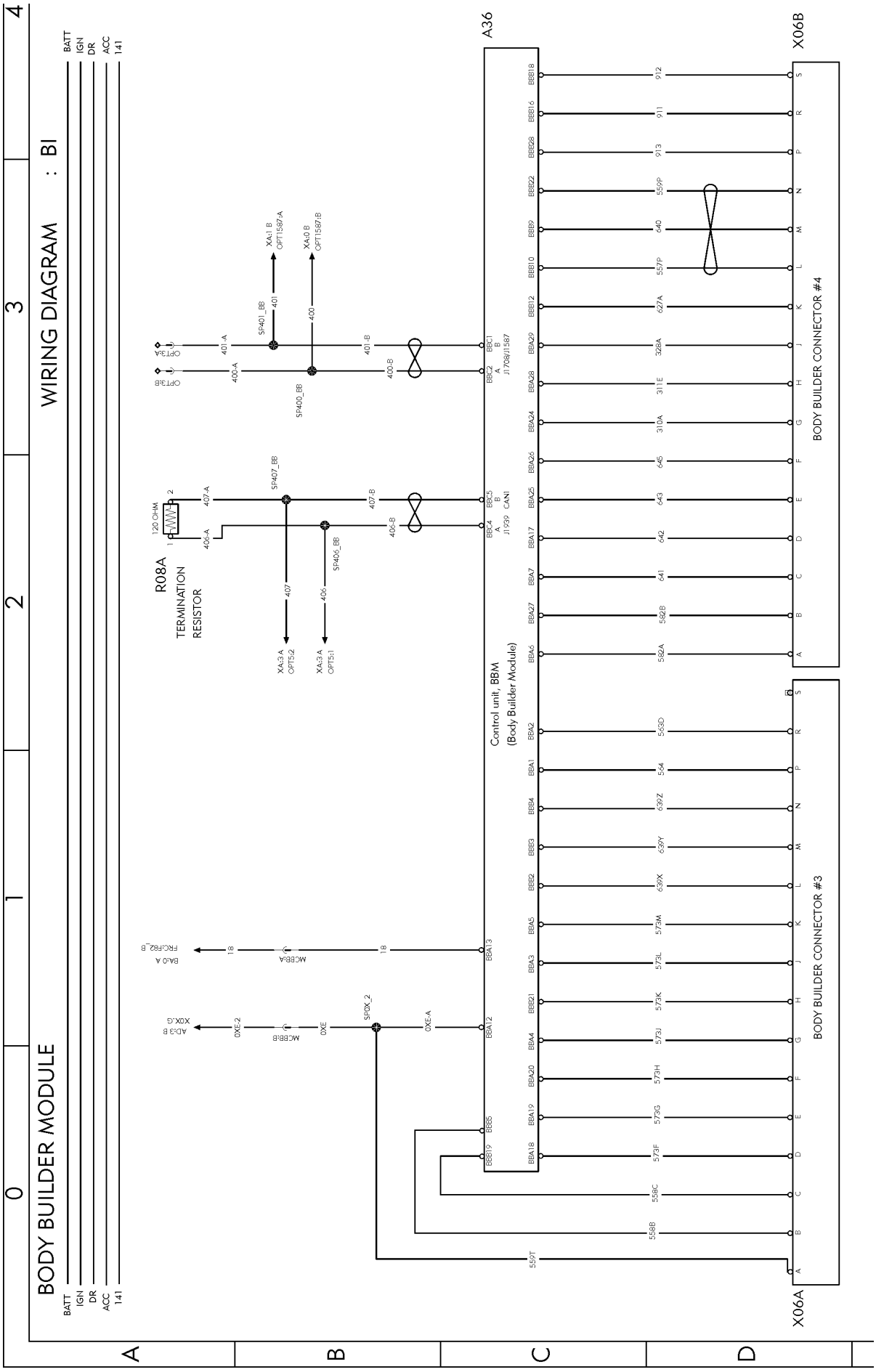

INSTRUMENTATION CLUSTER C
WIRING DIAGRAM : BD
BATT
IGN
DR
ACC
141
S45
Position switch, differential gear lock indicator, rear wheels, NC, or NO.
S45B
DIFFERENTIAL SWITCH, REAR AXLE
B39
SENSOR AIR RESTRICTION
A03C
INSTRUMENT CLUSTER C
SPOD-A_2
SPOD-A_1
SPOD-B
SF426
RADLR-A
RADLR-B
CERAJ1-A
CERAJ1-B
CERAJ2-A
CERAJ2-B
FCCEH
FCCEE
FCAR-A
FCAR-B
MCFC:19
MCFC:61
MCFC:20
MCFC:31
MCFC:40
FCCENT:K
AA:3 B
BC:3 B
B38RR2
SP0F
SP0M-A
SP0D
GD14 D
GE1 D
DE13 C
DF10 D
A57,GI19
A57,58,31
A115
A105
GP3 C
GP3 B
MCFC,82
M0ZB,B
387A
422A CONSTRUC
422A BASE-VN
431A CONSTRUC
431A BASE-VN
FC:2 C
FC:3 B
S09,1
S93,1
EA:2 B
EA:3 C
SP774
774-B
778
779A
14
199
426
0R-B
0D-A
0D-B
0D-C
0D-D
CONSTRUC
BASE-VN
COMMON

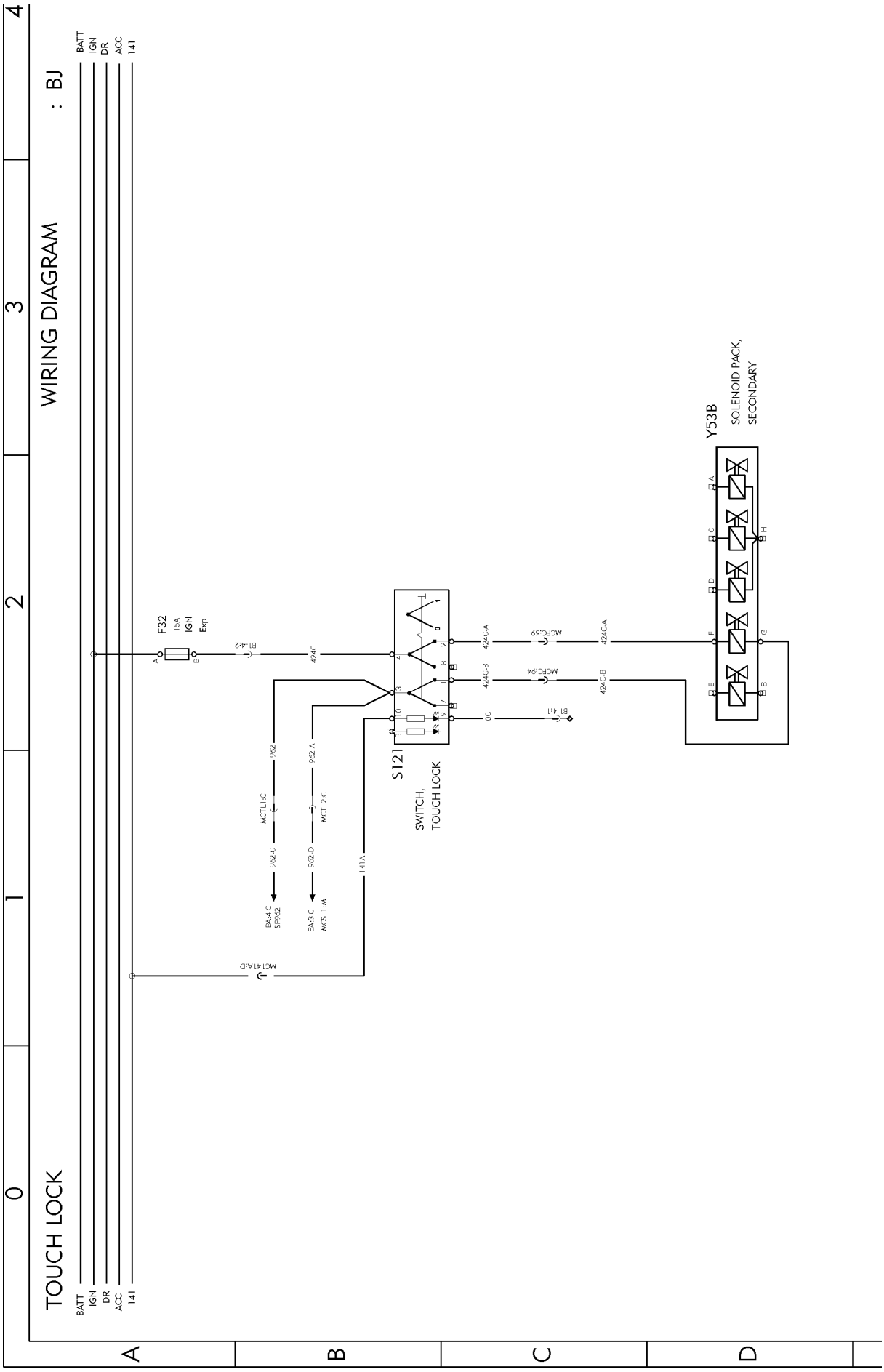

INSTRUMENTATION QUALCOMM
WIRING DIAGRAM : BE
0
1
2
3
4
A
B
C
D
BATT
IGN
DR
ACC
141
F59
Qualcom
Inside
Outside
Air
5A/10A
F44
Qualcom
Batt.
5A
A38
Control unit, FMS, satellite communication
A:C
A:A
A:B
B:A
B:B
400
401
950
951
400-A
400-B
401-A
401-B
SP400_3
SP401_3
OPT44-A
OPT44-B
XA0 B
OPT1587-B
XA1 B
OPT1587-A
OPTIONAL CONNECTOR CAN BE CONNECTED TO ROAD RELAY, VISCOM, & BODYBUILDER.
X0
XC1
AD2 C

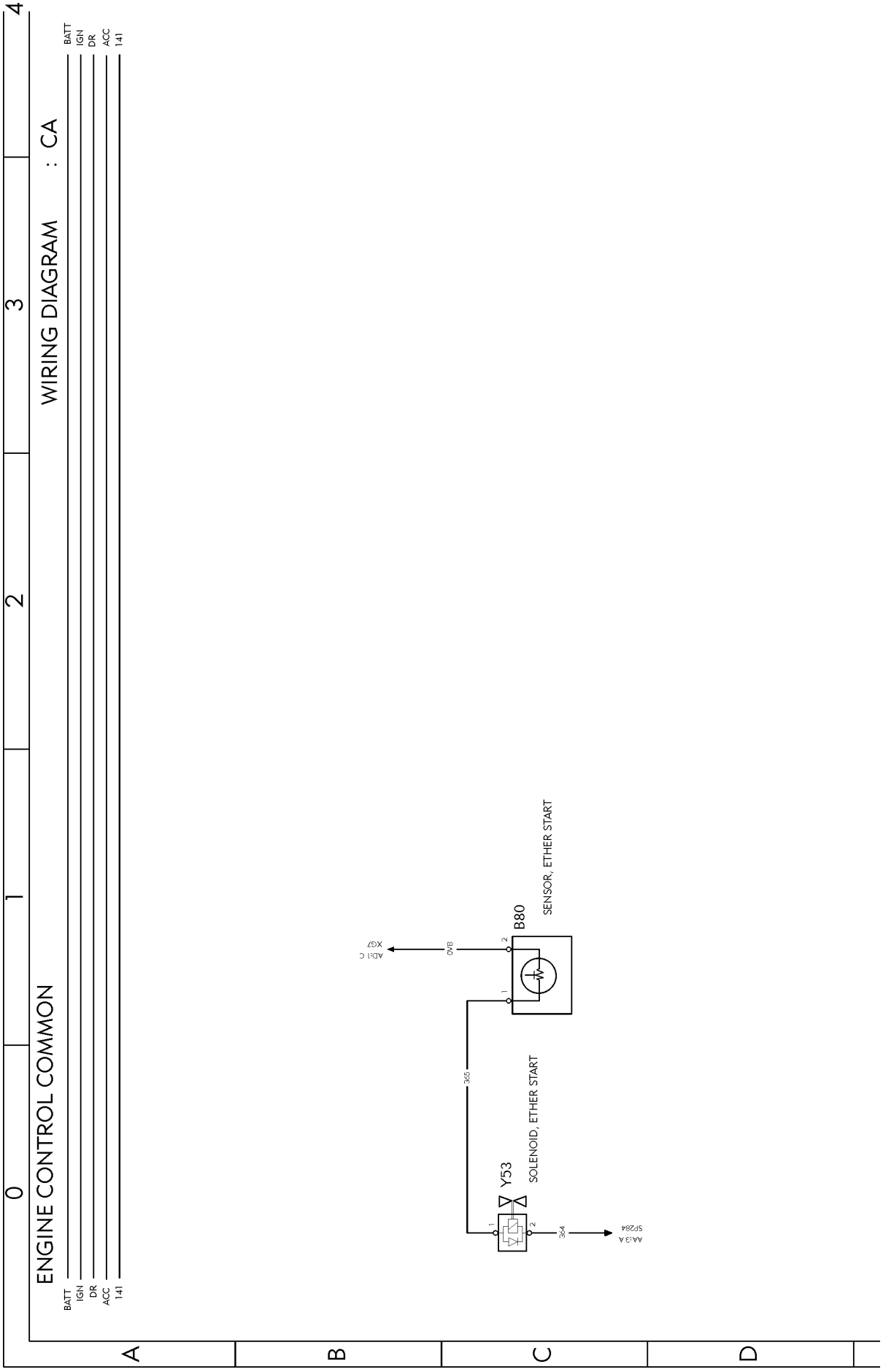

INSTRUMENTATION VOLVO ACTION LINK (VAL)
WIRING DIAGRAM : BF
BATT
IGN
DR
ACC
141
F69
Ign Exp/ Volvo Link
15A/5A
F11
Batt. Expansion/ Volvo Link
15A/5A
X23
Connector, Interface V.A.L.
A08
Control unit, GPS receiver, (Global Positioning System)
S28E
SWITCH, VOLVO ACTION SERVICE
OPTIONAL CONNECTOR CAN BE CONNECTED TO ROAD RELAY, QUALCOMM, & BODYBUILDER.

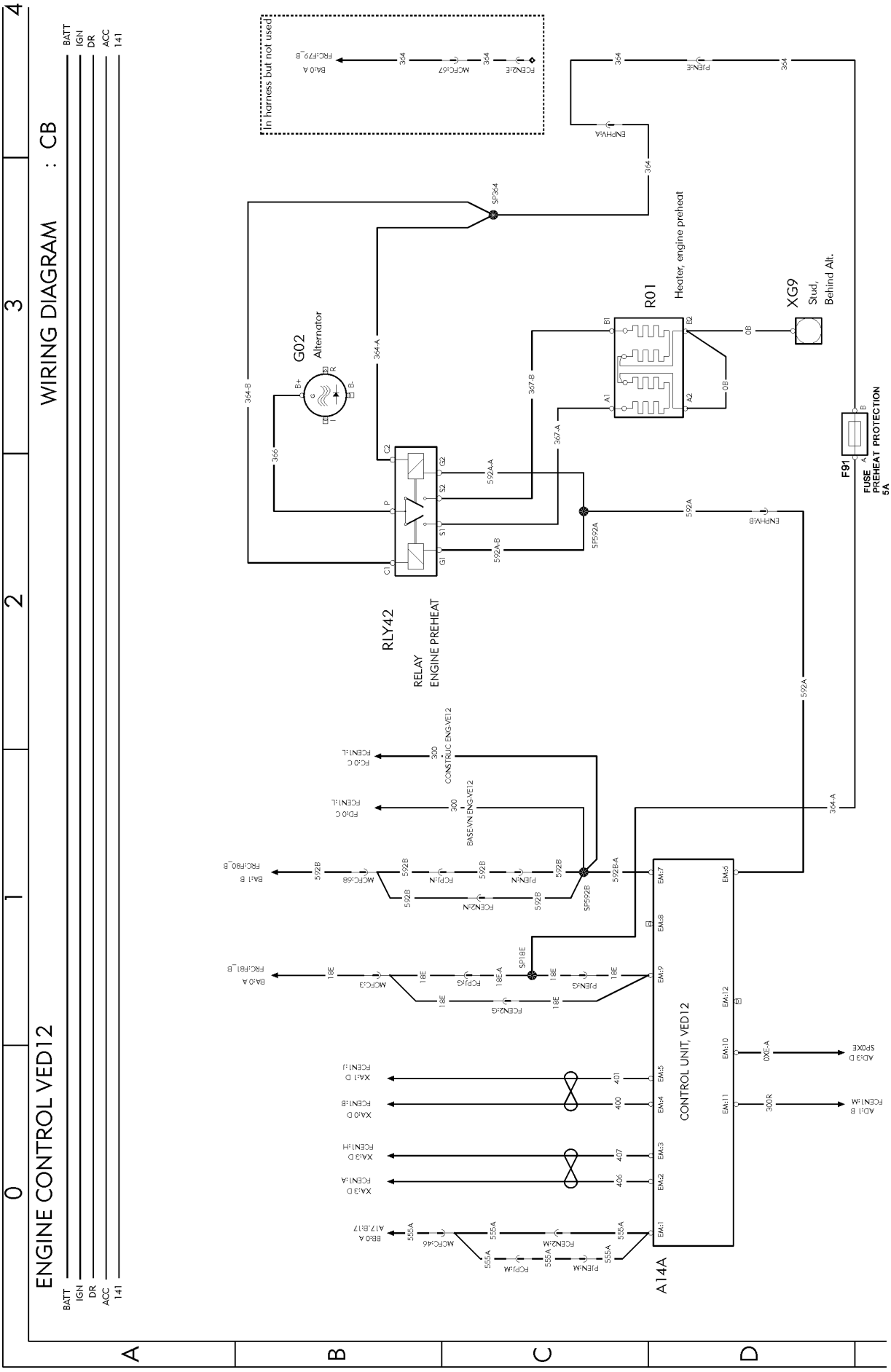

BODY BUILDER WIRING DIAGRAM : BG
BATT
IGN
DR
ACC
141
MFA2 Fuse F4 & F10 in LECM/ Body Builder 30A
F66 Body Builder Ign-X 15A
F60 Road Relay/ BB Ign-Y/ Ign Exp 5A/15A
F29 Camera Prep/ BB Ign-Z/ Voroad 15A/10A/5A
G02 Alternator
X06C BODY BUILDER CONNECTOR #1
X06F BODY BUILDER CAMERA PREP
X06D BODY BUILDER CONNECTOR #2
X06E CUMMINS ISC/ISL ONLY WITH BODY BUILDER
X17CA OPTION CONNECTOR A,CAB SIDE
X17CB OPTION CONNECTOR B,CAB SIDE
X17CC OPTION CONNECTOR C,CAB SIDE
X17FA OPTION CONNECTOR A, CHASSIS SIDE
X17FB OPTION CONNECTOR B,CHASSIS SIDE
X17FC OPTION CONNECTOR C, CHASSIS SIDE

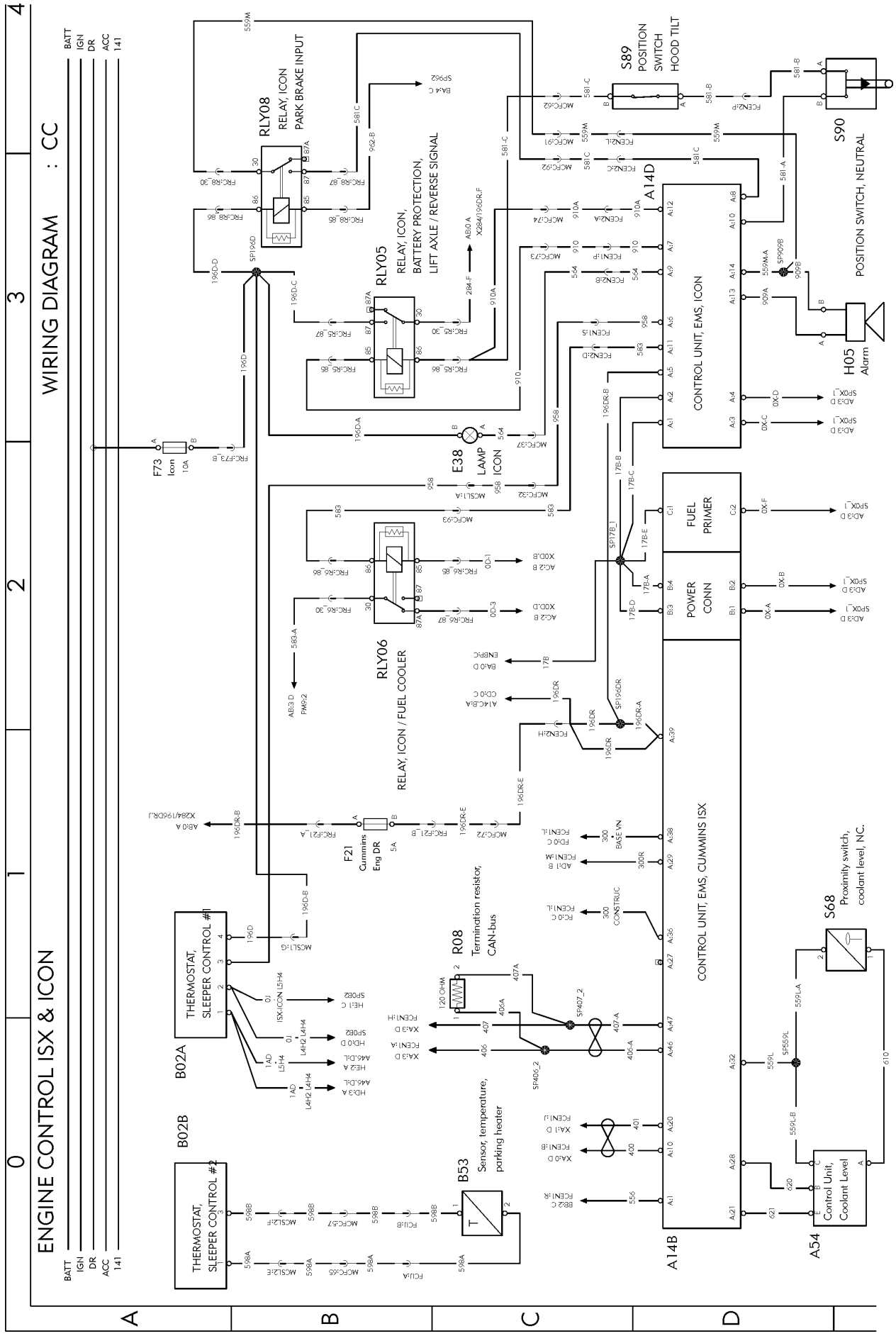

ROAD RELAY
WIRING DIAGRAM : BH
BATT
IGN
DR
ACC
141
X19
RADIO CONNECTOR
X20
MAIN CAB
RADIO CONNECTOR
499RF+
499LF+
490
141A
497R+
497L+
497L
497R
0C-10
492
499LF-
499RF-
90A
90A-B
SP90A-A
90A-A
ROAD RELAY CONNECTOR
X14
AF
AC
AB
AA
BB
BA
AE
AD
407
406
400-B
401-B
XA-3 A
SP407-A
SP406-A
400
401
SP400-B
SP401-B
XA-0 B
XA-1 B
OPT1587-B
OPT1587-A
400-A
401-A
OPT2-B
OPT2-A
OPTION CONNECTOR
CAN BE CONNECTED TO
ROAD RELAY, QUALCOMM
& BODY BUILDER.
F60
Road
Relay/
BB Ign-Y/
Ign Exp
5A/15A
F54
Road Relay /
Battery Exp
5A/15A
FRC-F60_B
FRC-F54_B
B2-B2-1_2
B2-B2-2_2
196C
591
B2-B2-2_1
0X-A
A
B
C
D
0
1
2
3
4

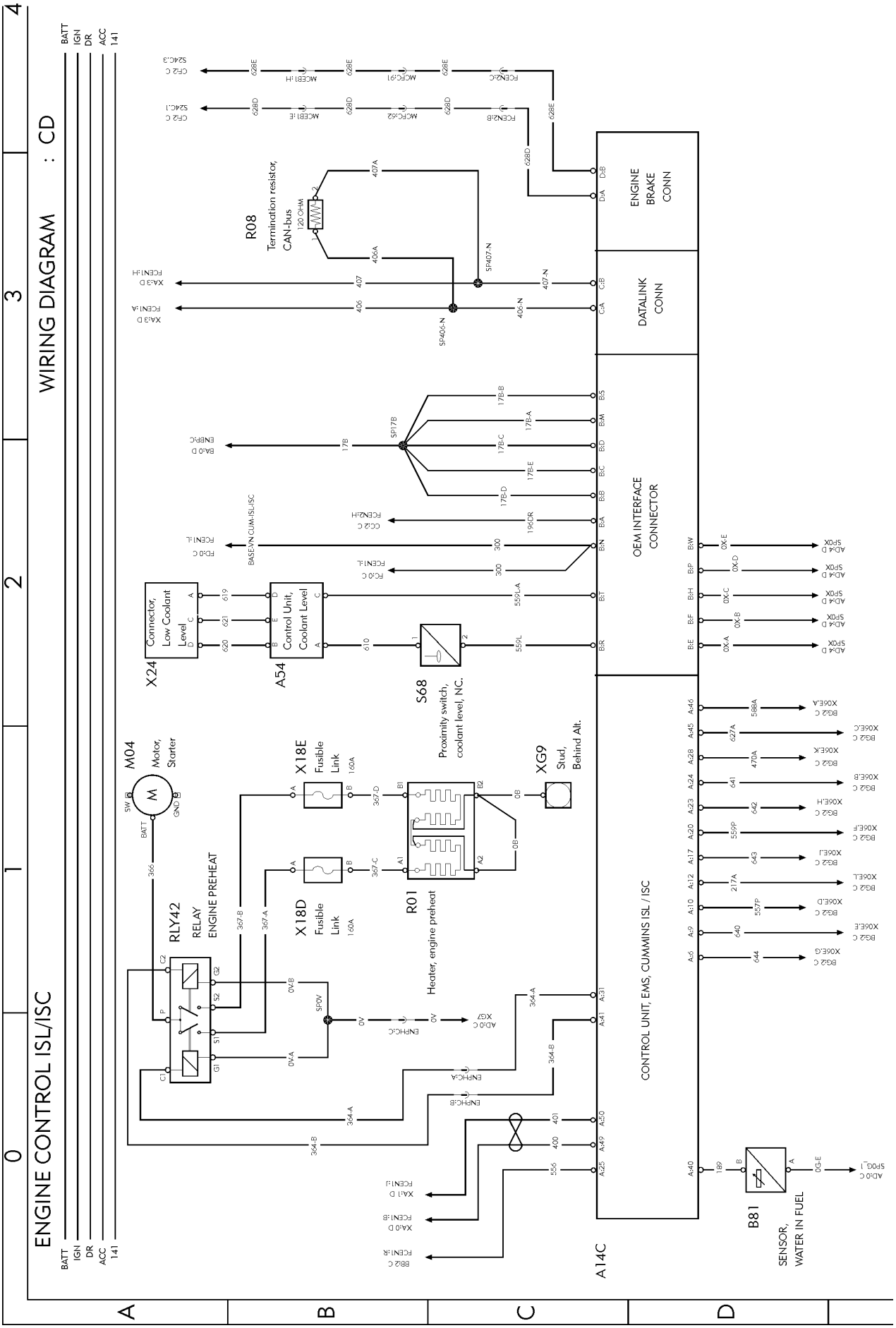

BODY BUILDER MODULE
WIRING DIAGRAM : BI
BATT
IGN
DR
ACC
141
A36
X06B
X06A
Control unit, BBM
(Body Builder Module)
BODY BUILDER CONNECTOR #4
BODY BUILDER CONNECTOR #3
R08A
TERMINATION
RESISTOR
120 OHM
SP401_BB
SP400_BB
SP407_BB
SP406_BB
SPDX_2
XA-1 B
OPT1587-A
XA-0 B
OPT1587-B
XA-3 A
OPT5:2
XA-3 A
OPT5:1
OPT3:A
OPT3:B
MCBB:A
MCBB:B
J1708/J1587
J1939 CAN1

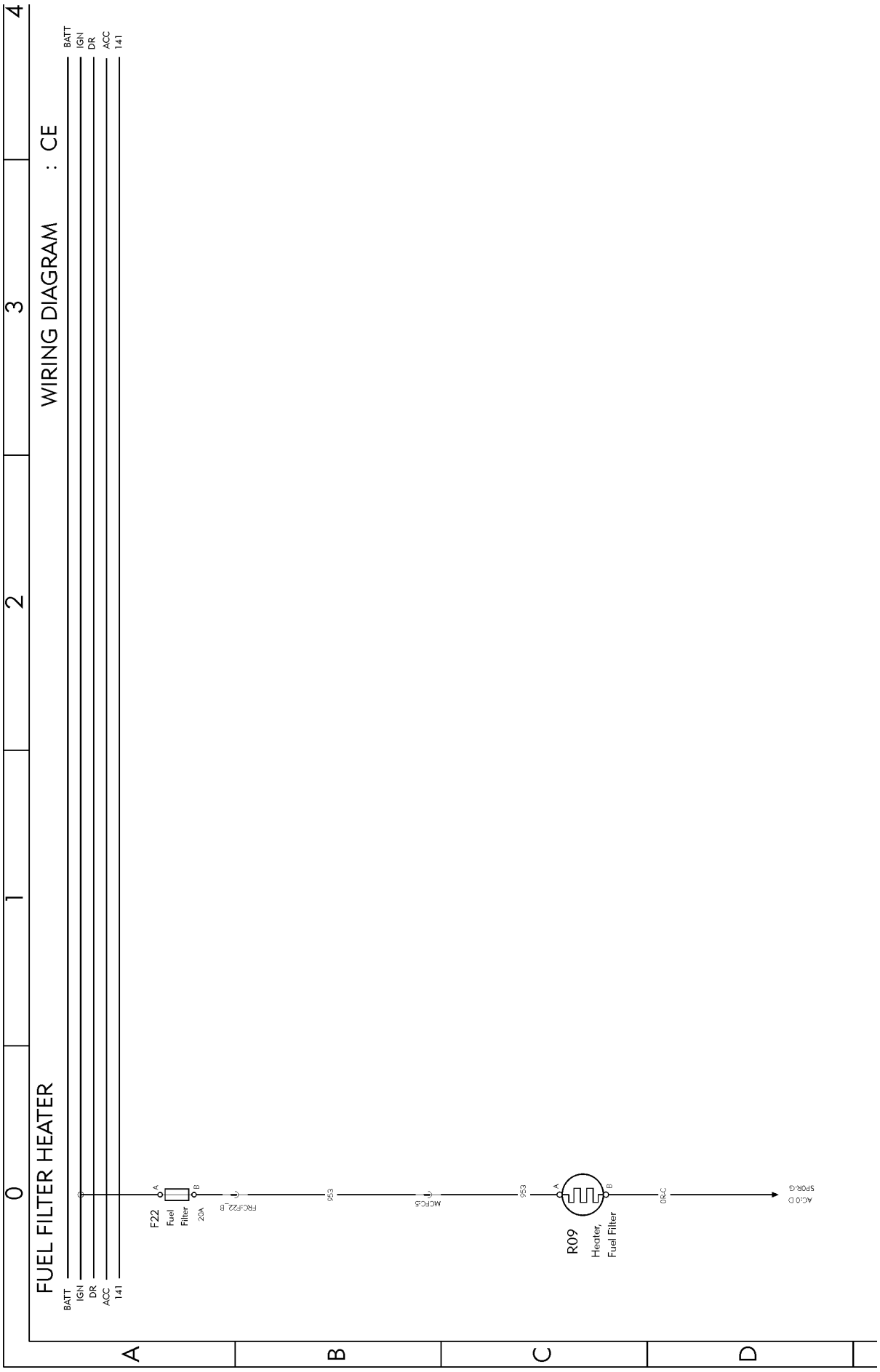

TOUCH LOCK
WIRING DIAGRAM : BJ
BATT
IGN
DR
ACC
141
F32
15A
IGN
Exp
S121
SWITCH,
TOUCH LOCK
Y53B
SOLENOID PACK,
SECONDARY
424C
424C-A
424C-B
962
962-A
962-C
962-D
141A
MCT1.1C
MCT1.2C
MCT1.4A-D
MCFC.69
MCFC.94
BA.4 C
SP962
BA.3 C
MCSL1.1M

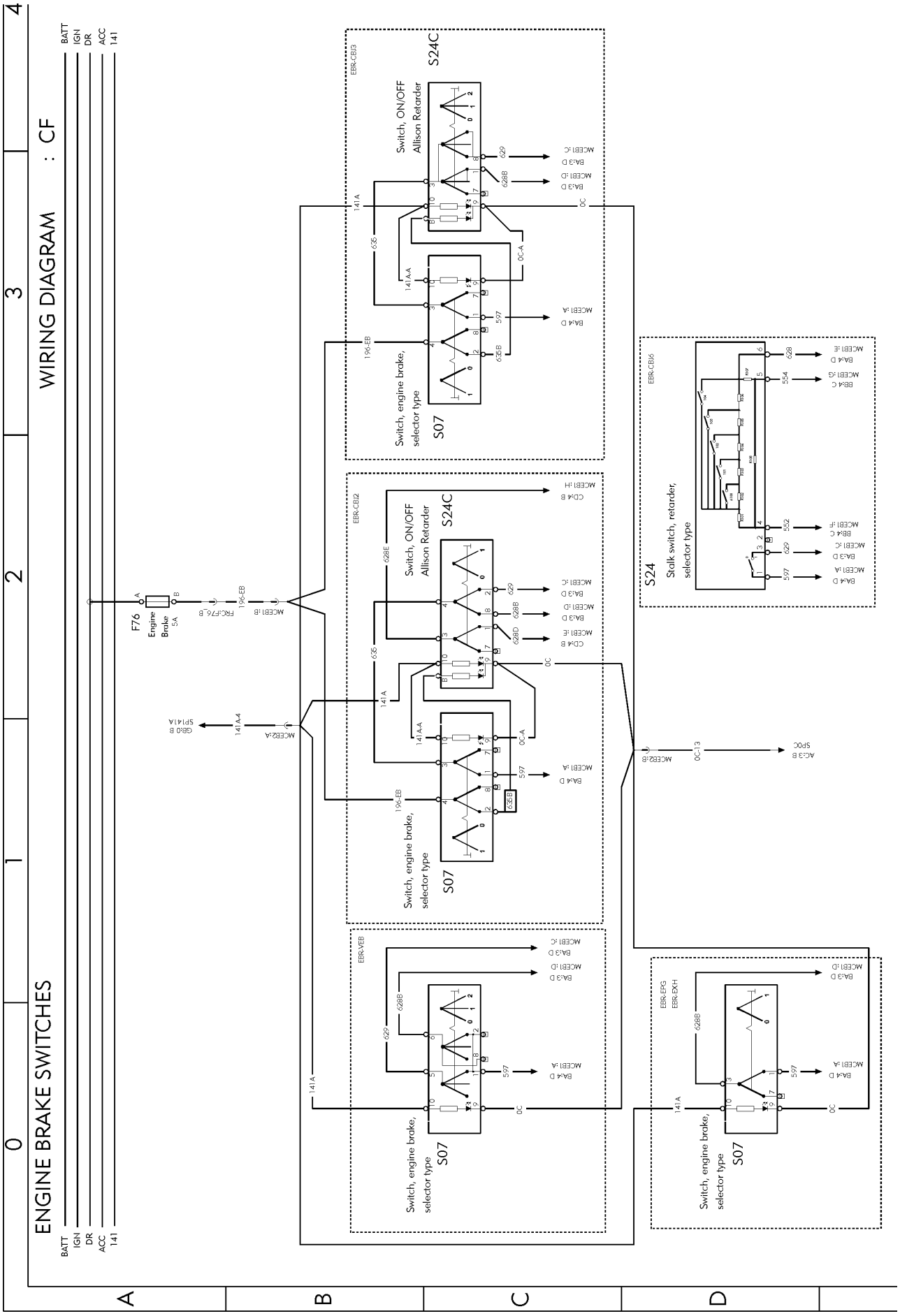

ENGINE CONTROL COMMON
WIRING DIAGRAM : CA
BATT
IGN
DR
ACC
141
0
1
2
3
4
A
B
C
D
B80
SENSOR, ETHER START
Y53
SOLENOID, ETHER START
365
364
8/40
AD:1 C
XG7
AA:3 A
SP284

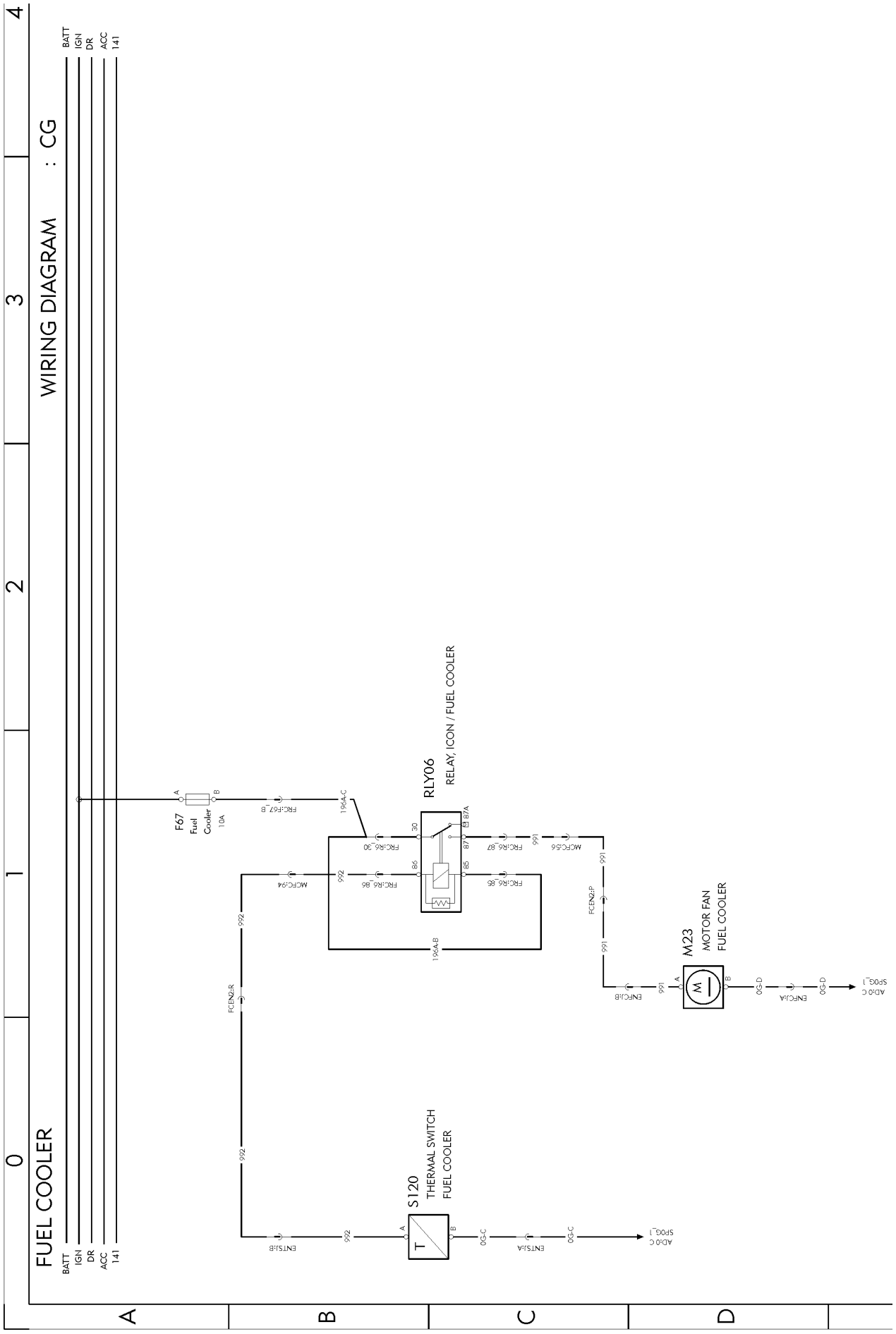

ENGINE CONTROL VED12
WIRING DIAGRAM : CB
BATT
IGN
DR
ACC
141
In harness but not used
G02
Alternator
R01
Heater, engine preheat
XG9
Stud,
Behind Alt.
F91
FUSE
PREHEAT PROTECTION
5A
RLY42
RELAY
ENGINE PREHEAT
CONTROL UNIT, VED12
A14A

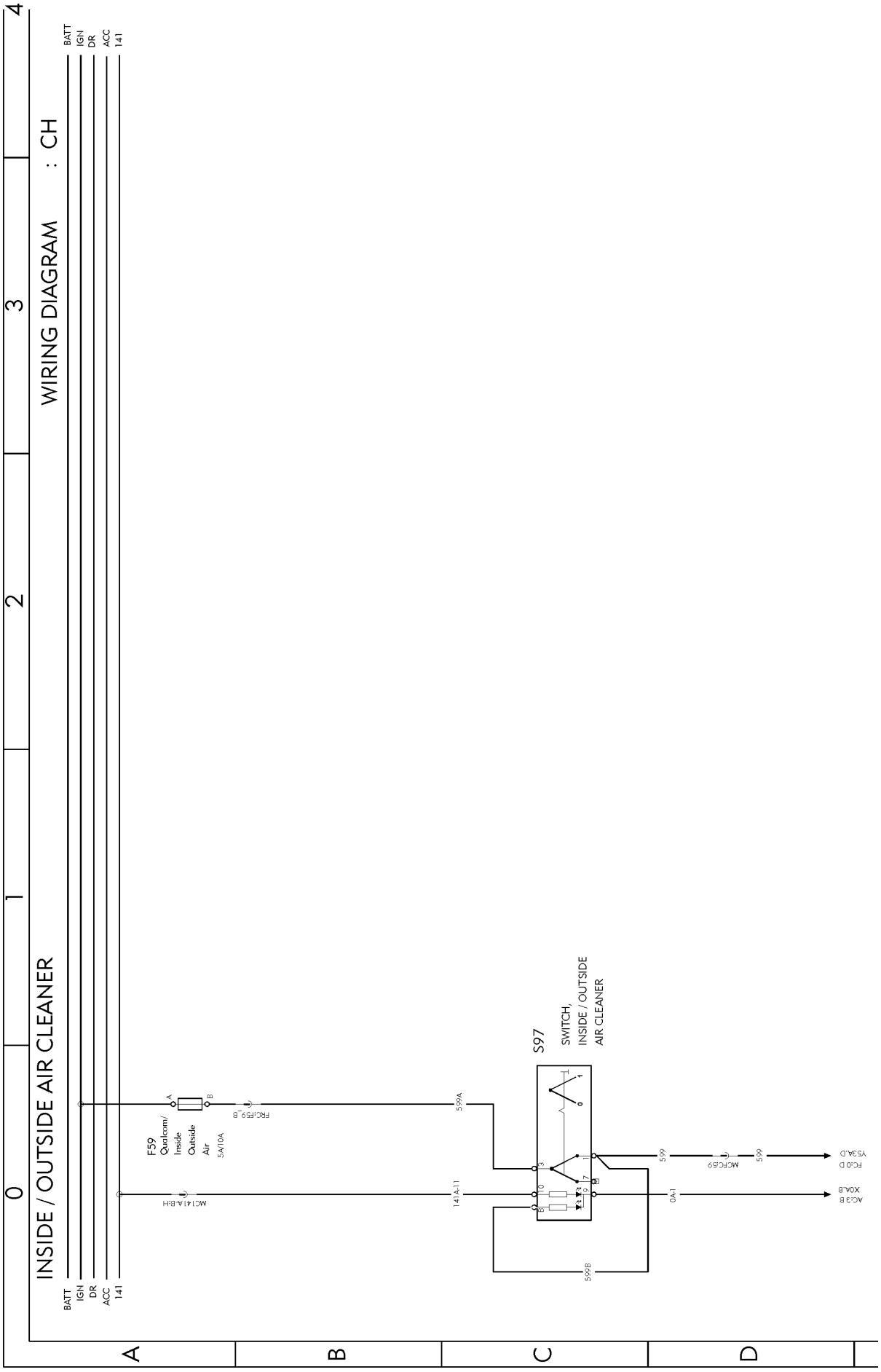

ENGINE CONTROL ISX & ICON
WIRING DIAGRAM : CC
BATT
IGN
DR
ACC
141
RLY08
RELAY, ICON
PARK BRAKE INPUT
RLY05
RELAY, ICON,
BATTERY PROTECTION,
LIFT AXLE / REVERSE SIGNAL
RLY06
RELAY, ICON / FUEL COOLER
S89
POSITION
SWITCH
HOOD TILT
S90
POSITION SWITCH, NEUTRAL
H05
Alarm
E38
LAMP
ICON
F73
Icon
10A
F21
Cummins
Eng DR
5A
A14D
CONTROL UNIT, EMS, ICON
FUEL
PRIMER
POWER
CONN
A14B
CONTROL UNIT, EMS, CUMMINS ISX
B02A
THERMOSTAT,
SLEEPER CONTROL #1
B02B
THERMOSTAT,
SLEEPER CONTROL #2
R08
Termination resistor,
CAN-bus
120 OHM
B53
Sensor, temperature,
parking heater
S68
Proximity switch,
coolant level, NC.
A54
Control Unit,
Coolant Level
ISX-ICON L5H4
BASE VN
CONSTRUC
0
1
2
3
4
A
B
C
D

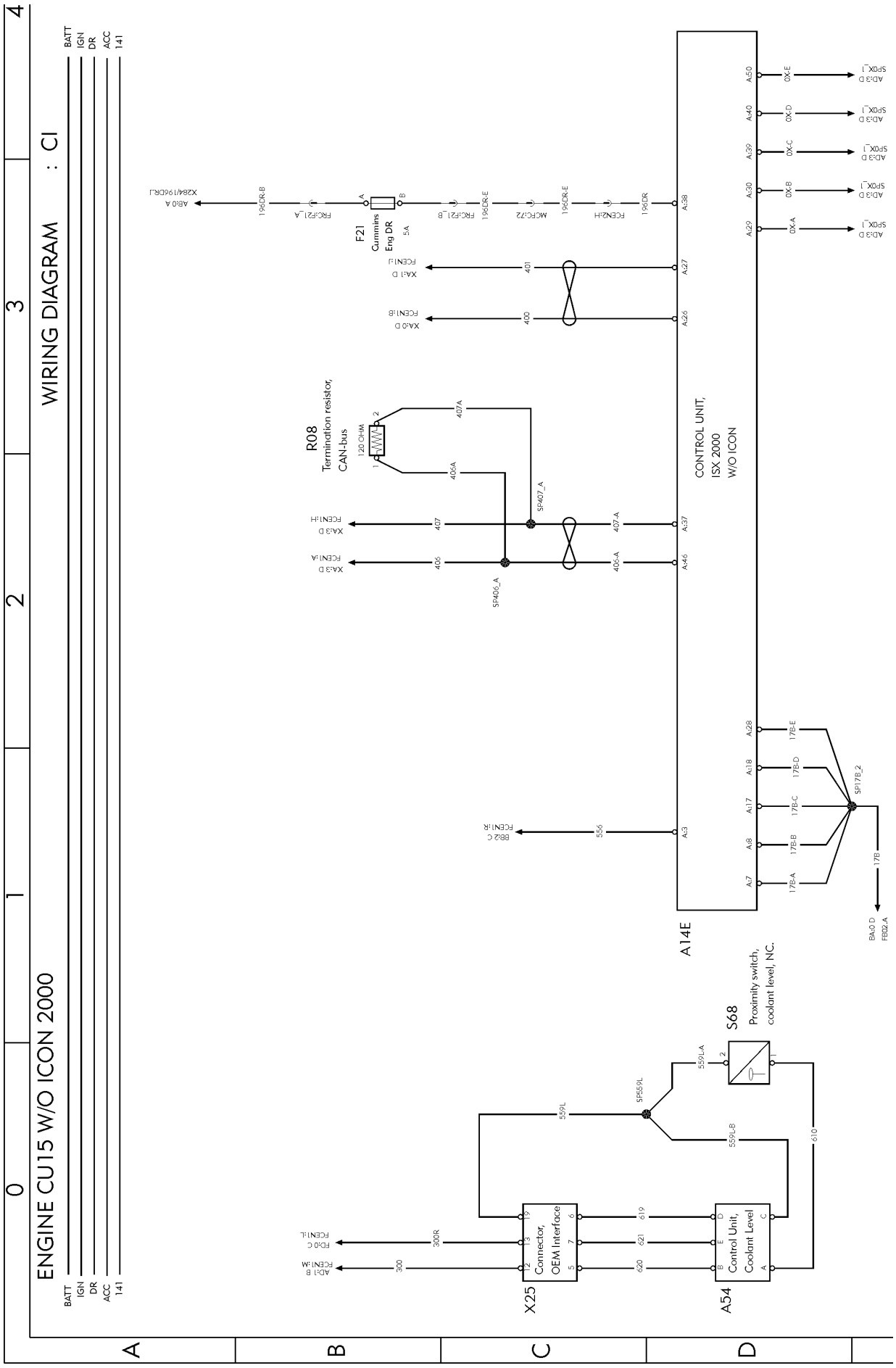

ENGINE CONTROL ISL/ISC
WIRING DIAGRAM : CD
BATT
IGN
DR
ACC
141
CONTROL UNIT, EMS, CUMMINS ISL / ISC
A14C
OEM INTERFACE CONNECTOR
DATALINK CONN
ENGINE BRAKE CONN
M04 Motor, Starter
RLY42 RELAY ENGINE PREHEAT
X18E Fusible Link 60A
X18D Fusible Link 60A
R01 Heater, engine preheat
S68 Proximity switch, coolant level, NC.
X24 Connector, Low Coolant Level
A54 Control Unit, Coolant Level
XG9 Stud, Behind Alt.
R08 Termination resistor, CAN-bus 120 OHM
B81 SENSOR, WATER IN FUEL

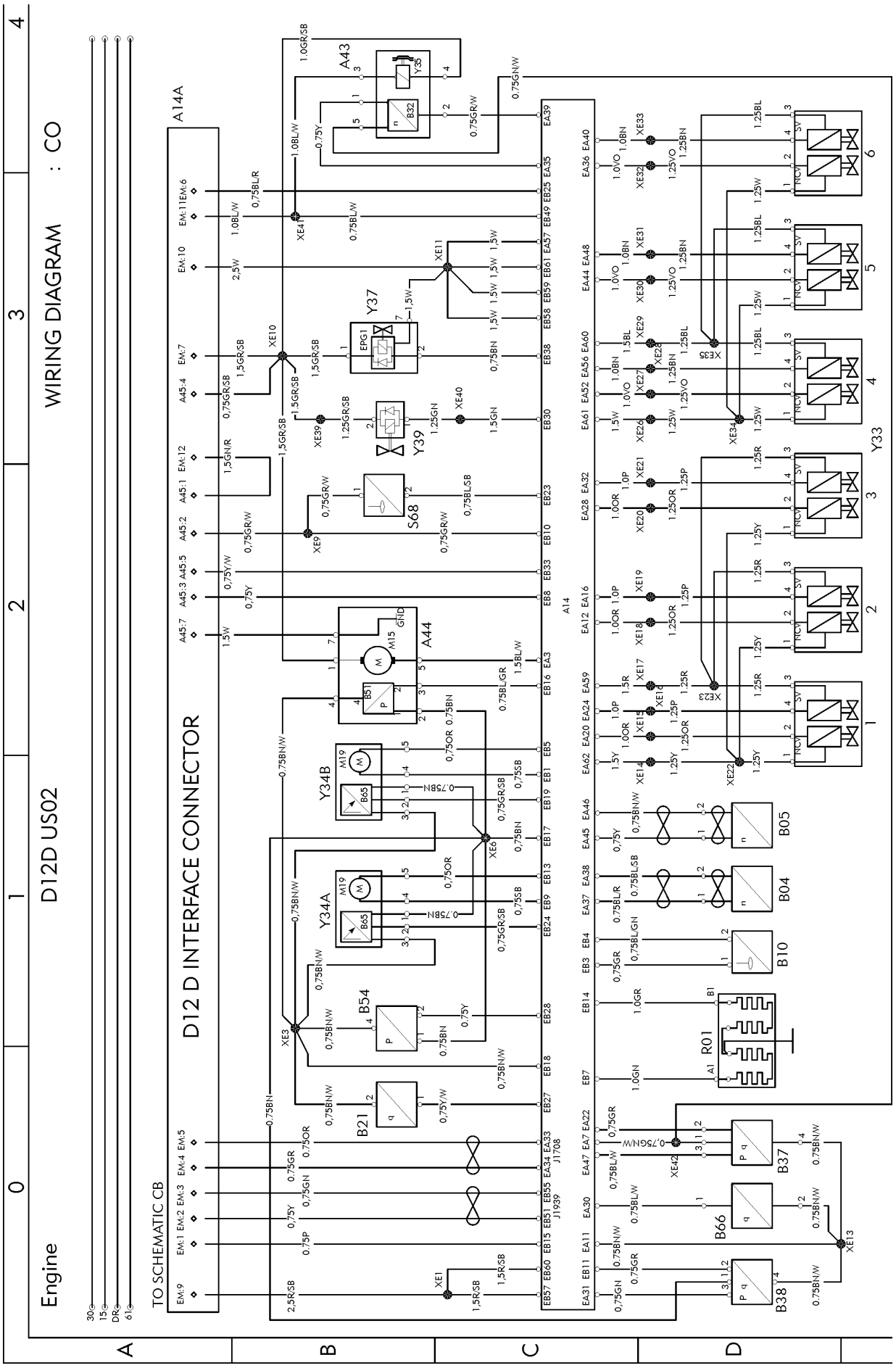

FUEL FILTER HEATER
WIRING DIAGRAM : CE
BATT
IGN
DR
ACC
141
F22
Fuel
Filter
20A
FRC:F22_B
953
MCF:C5
R09
Heater,
Fuel Filter
0R-C
SP:0R-G
AC:0 D
A
B
C
D
0
1
2
3
4

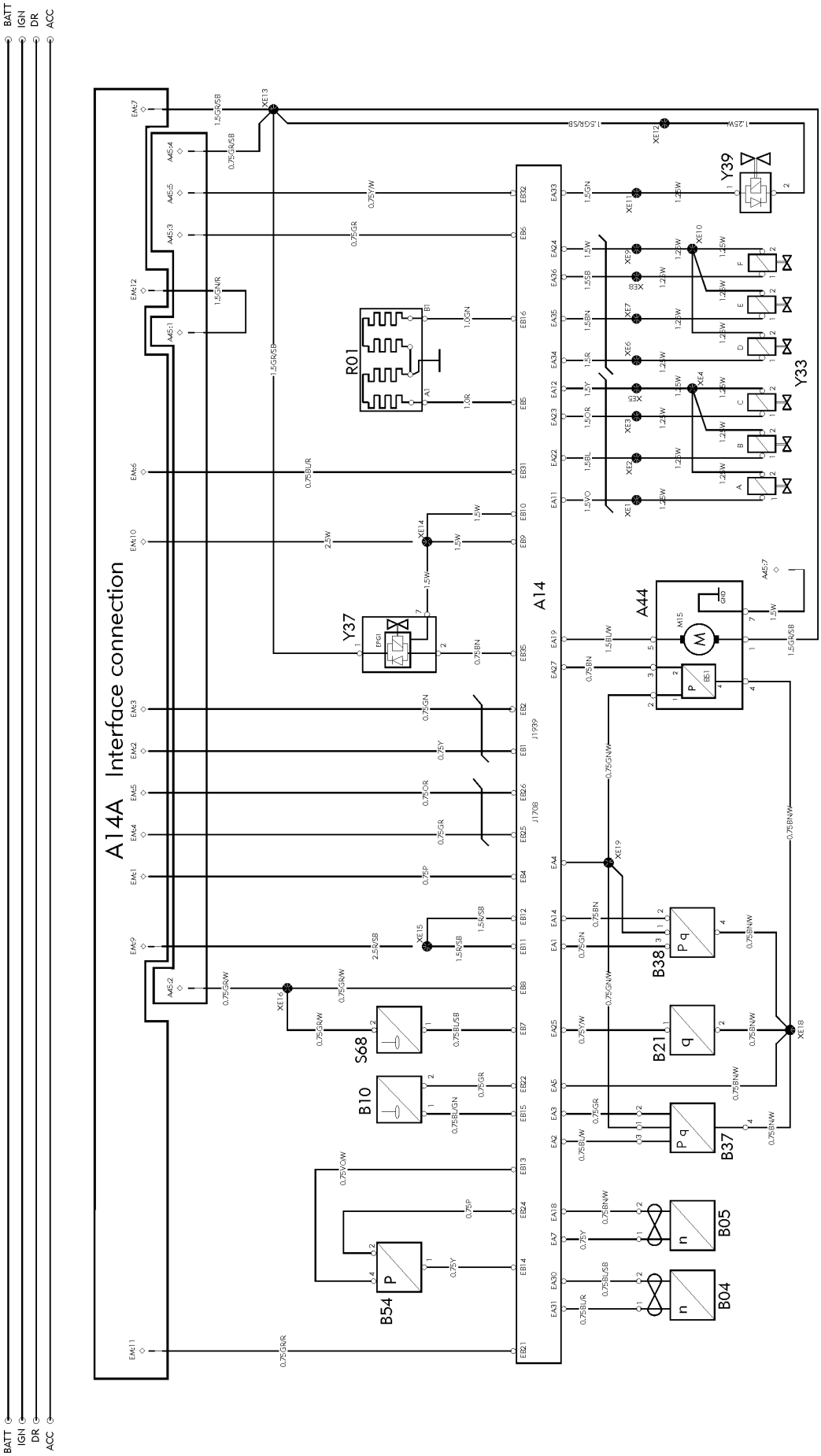

ENGINE BRAKE SWITCHES
WIRING DIAGRAM : CF
BATT
IGN
DR
ACC
141
F76
Engine Brake
5A
S24C
Switch, ON/OFF
Allison Retarder
S07
Switch, engine brake,
selector type
S24
Stalk switch, retarder,
selector type
EBR-CB13
EBR-CB12
EBR-CB16
EBR-VEB
EBR-EPG
EBR-EXH


FUEL COOLER
WIRING DIAGRAM : CG
BATT
IGN
DR
ACC
141
F67
Fuel Cooler
10A
RLY06
RELAY, ICON / FUEL COOLER
S120
THERMAL SWITCH
FUEL COOLER
M23
MOTOR FAN
FUEL COOLER

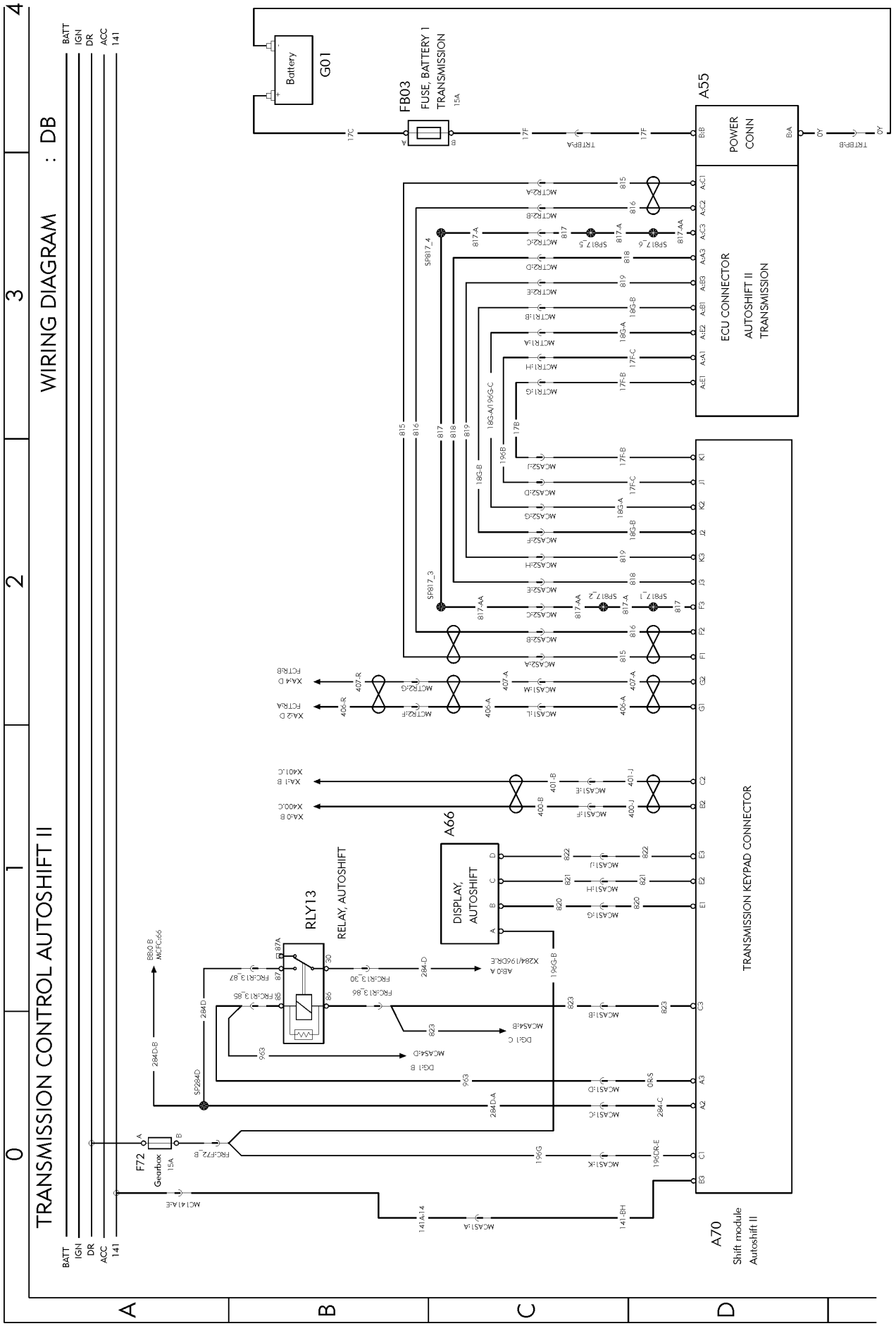

INSIDE / OUTSIDE AIR CLEANER
WIRING DIAGRAM : CH
0
1
2
3
4
A
B
C
D
BATT
IGN
DR
ACC
141
F59
Qualcom/
Inside
Outside
Air
5A/10A
S97
SWITCH,
INSIDE / OUTSIDE
AIR CLEANER
599A
599B
599
141A-11
0A-1
MC141A-8H
FRC-F59-LB
MCFC-S9
FC-30-D
Y53A-D
X0A-B
AC-3-B

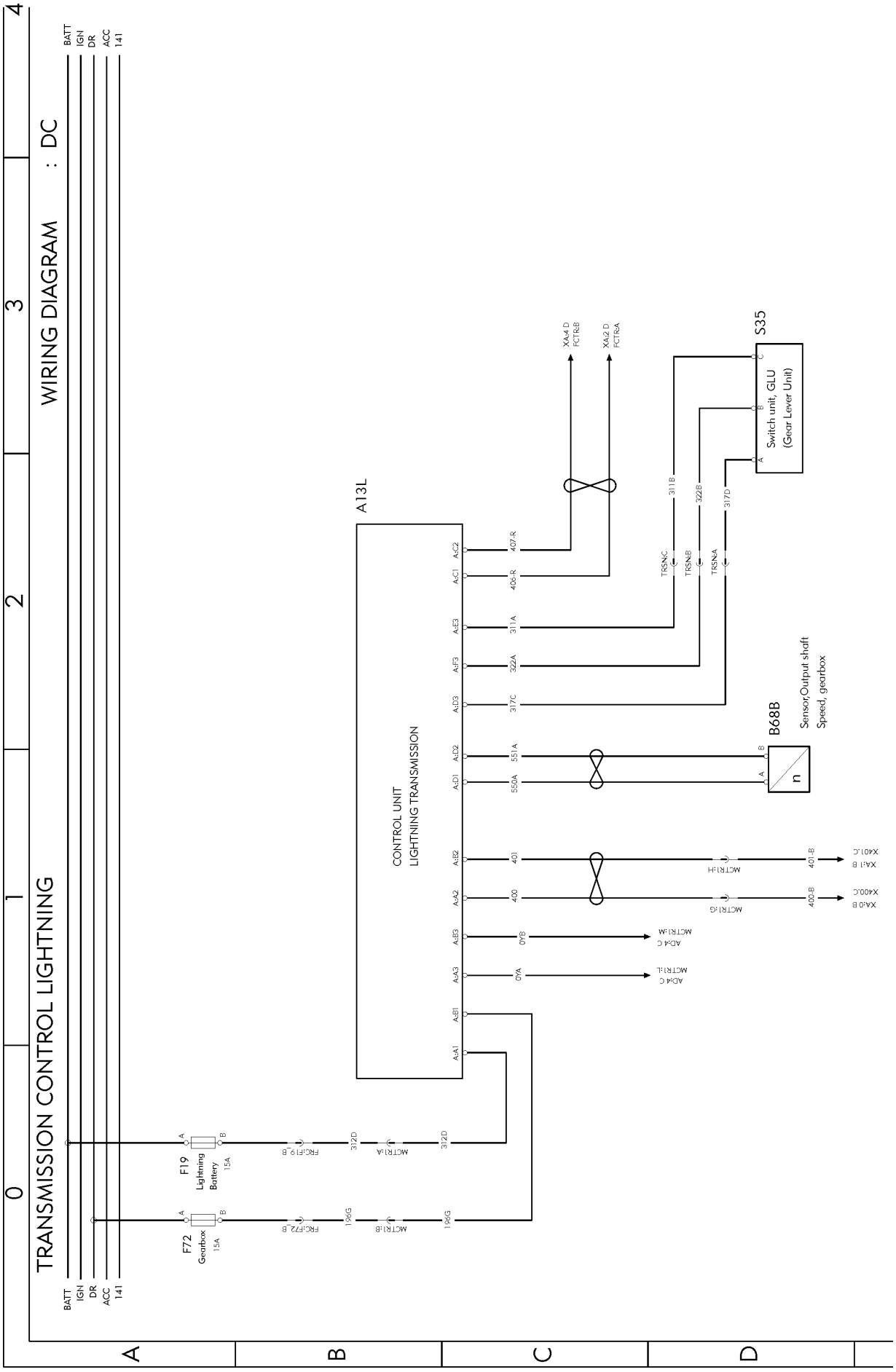

ENGINE CU15 W/O ICON 2000
WIRING DIAGRAM : CI
BATT
IGN
DR
ACC
141
CONTROL UNIT, ISX 2000 W/O ICON
A14E
R08
Termination resistor, CAN-bus
120 OHM
F21
Cummins Eng DR
5A
S68
Proximity switch, coolant level, NC.
X25
Connector, OEM Interface
A54
Control Unit, Coolant Level

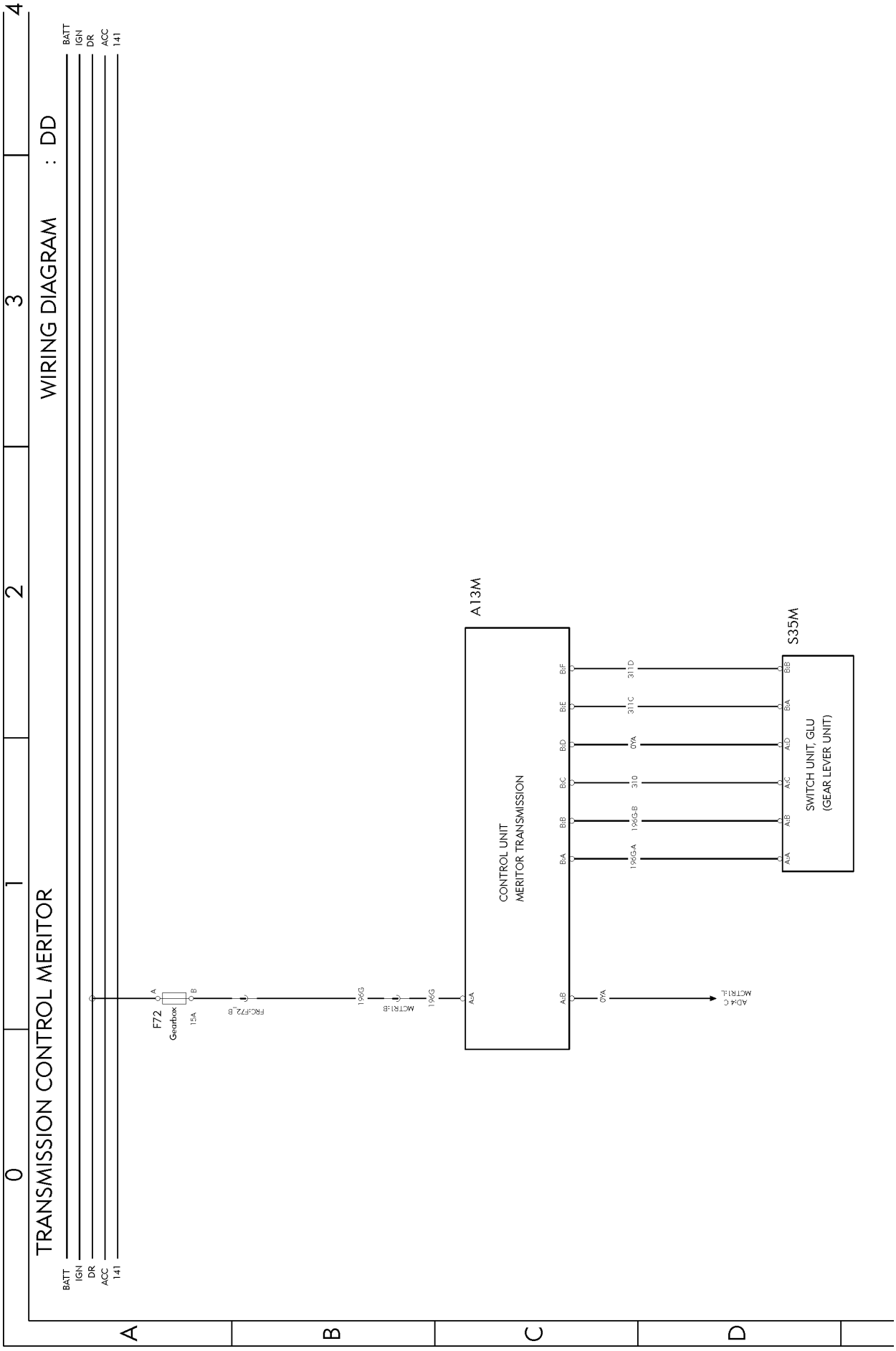

WIRING DIAGRAM : CO
Engine
D12D US02
D12 D INTERFACE CONNECTOR
TO SCHEMATIC CB
A14A
A14
A43
A44
Y33
Y34A
Y34B
Y37
Y39
S68
R01
B04
B05
B10
B21
B37
B38
B54
B66
XE1
XE3
XE6
XE9
XE10
XE11
XE13
XE22
XE23
XE34
XE41
XE42

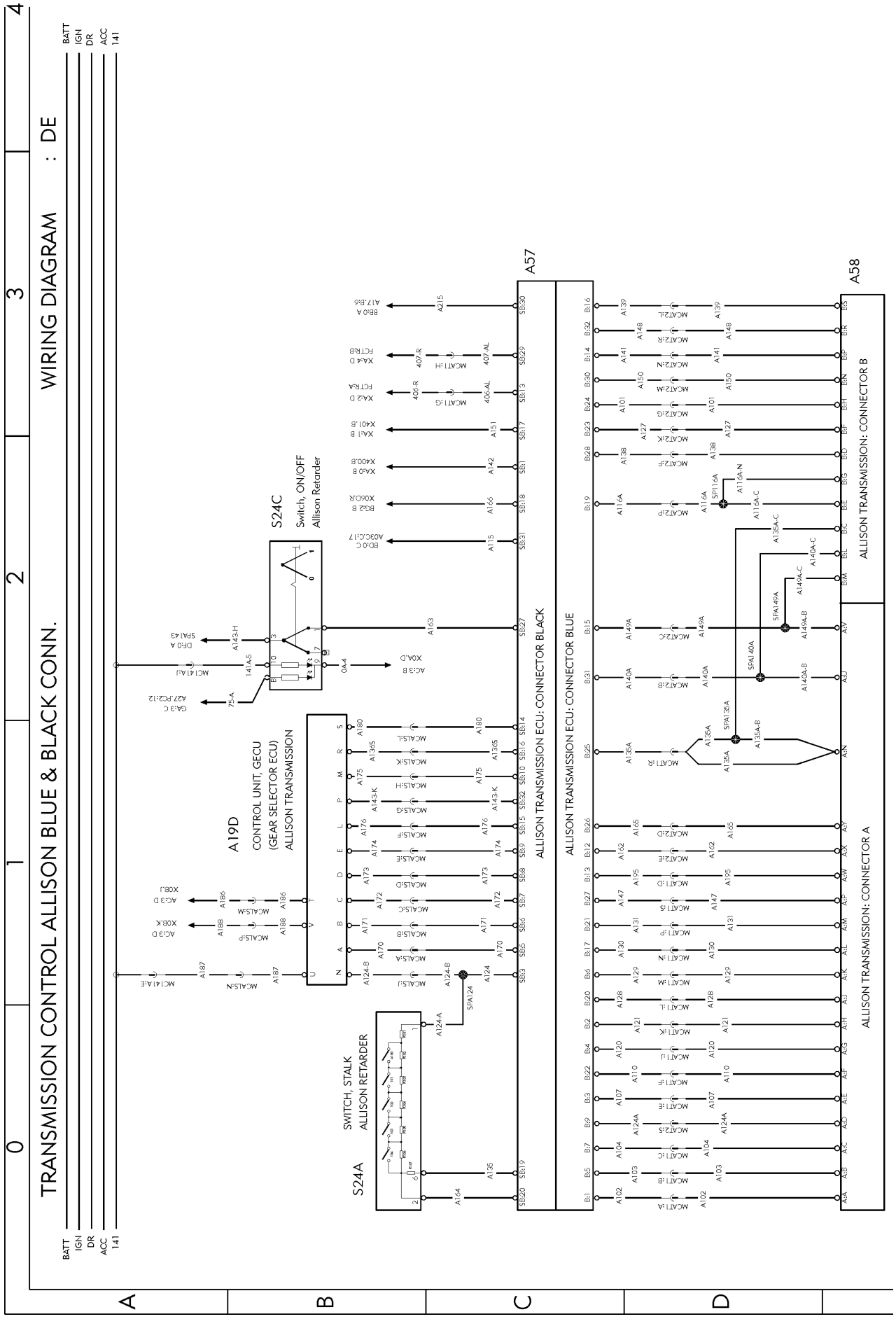


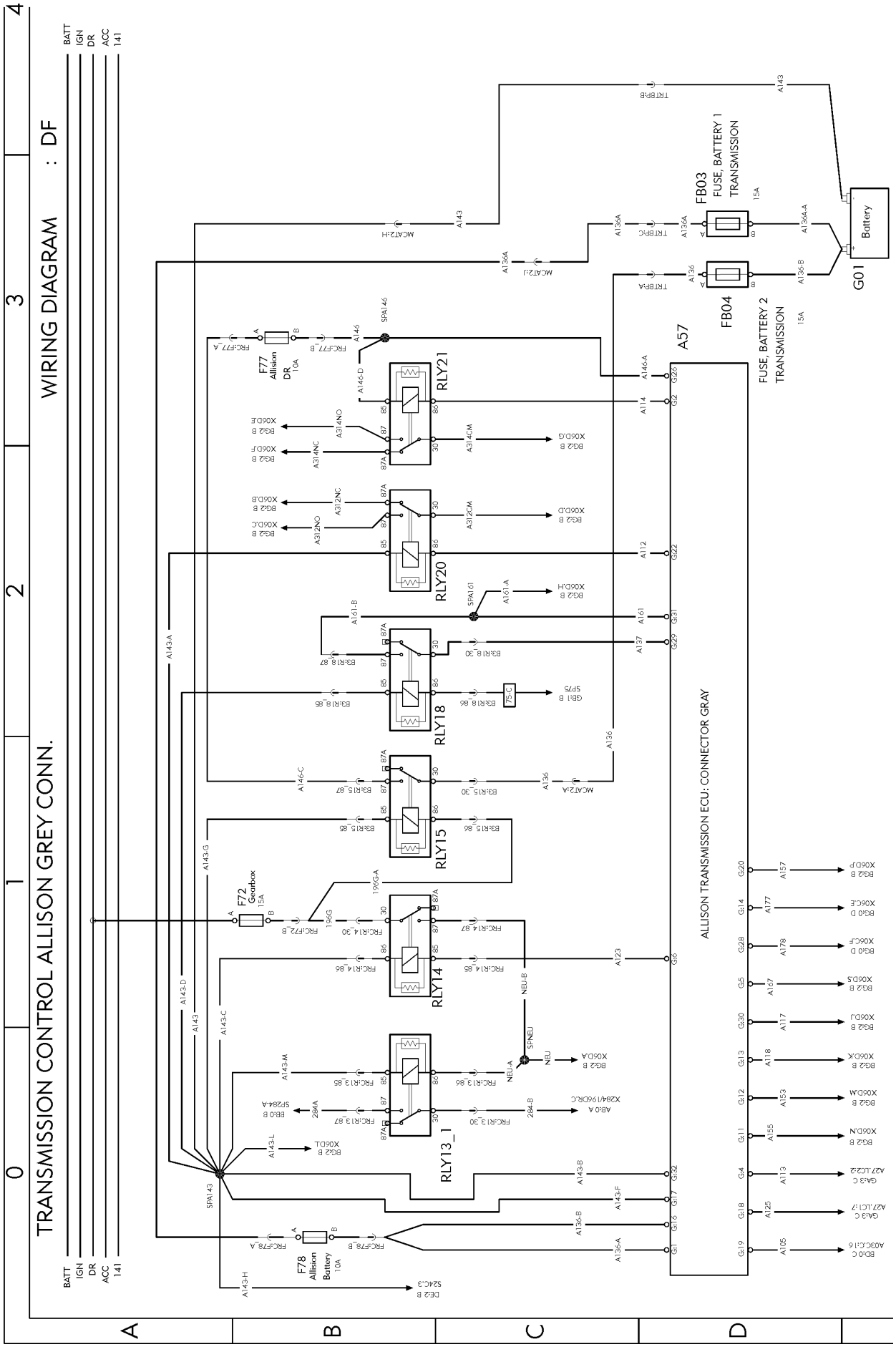
D12C Engine, From build date January 2003

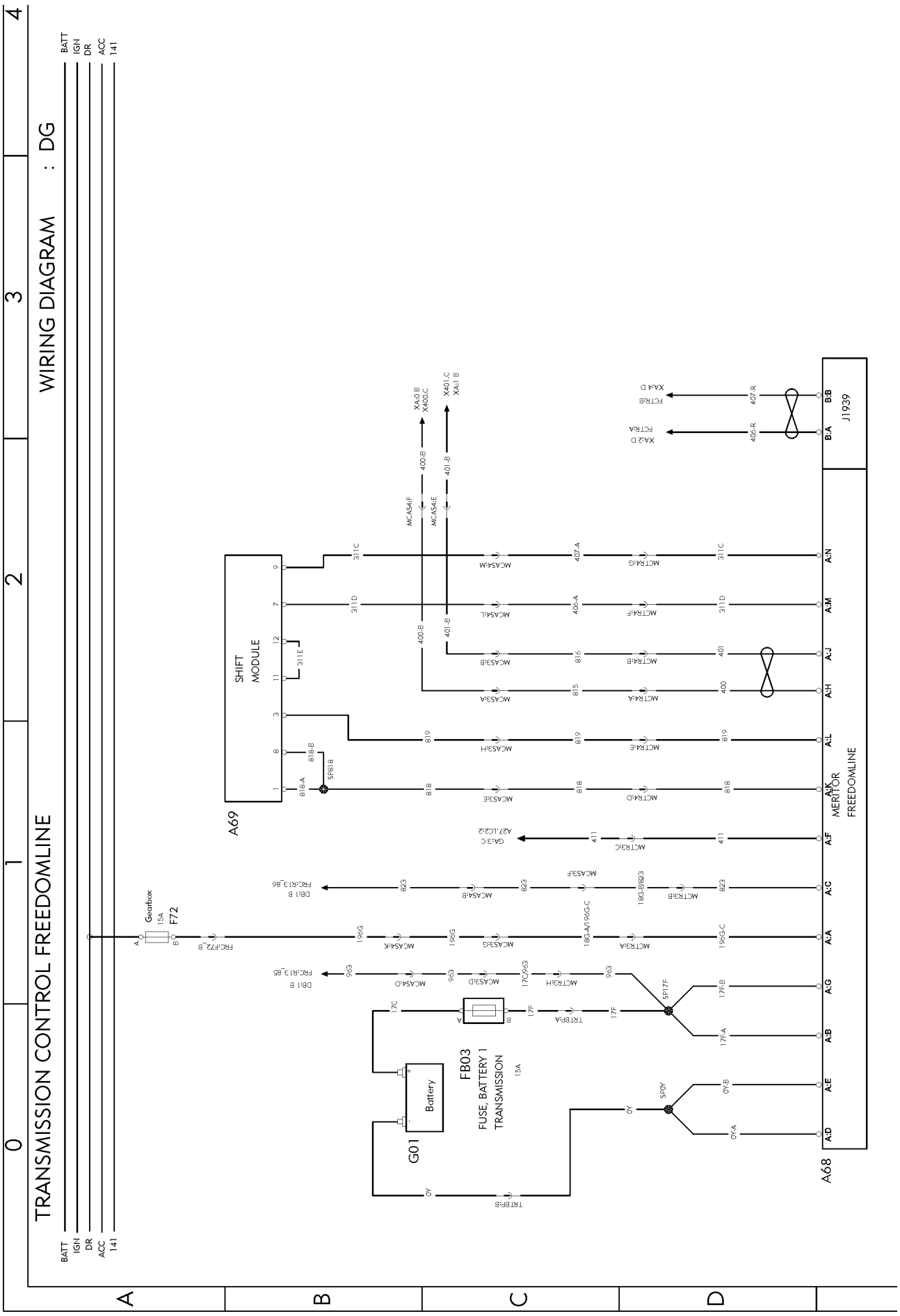

TRANSMISSION CONTROL AUTOSHIFT II
WIRING DIAGRAM : DB
BATT
IGN
DR
ACC
141
Battery
G01
FB03
FUSE, BATTERY 1 TRANSMISSION
15A
A55
POWER CONN
ECU CONNECTOR
AUTOSHIFT II
TRANSMISSION
A66
DISPLAY, AUTOSHIFT
RLY13
RELAY, AUTOSHIFT
TRANSMISSION KEYPAD CONNECTOR
A70
Shift module
Autoshift II
F72
Gearbox
15A

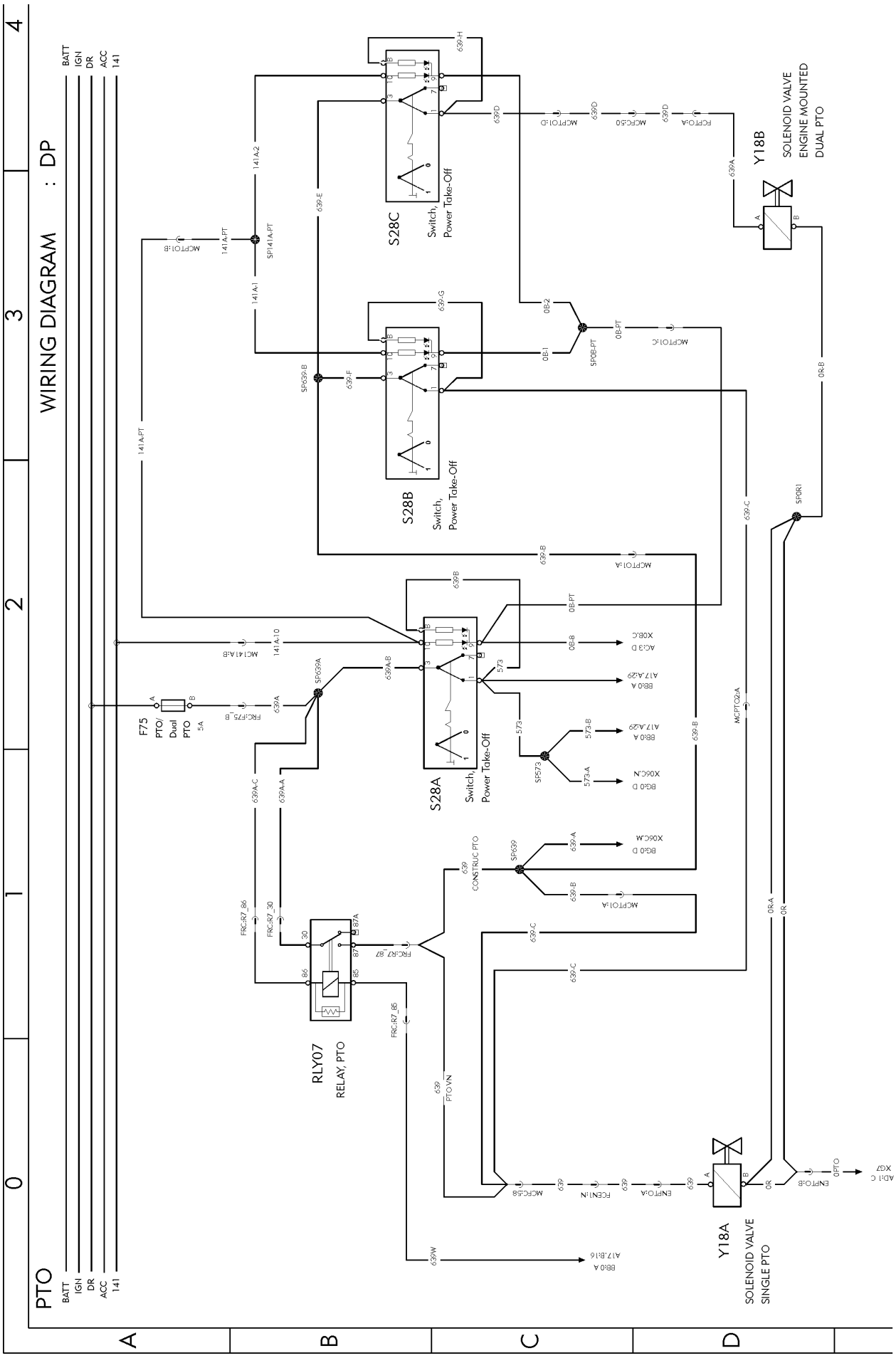

TRANSMISSION CONTROL LIGHTNING
WIRING DIAGRAM : DC
0
1
2
3
4
A
B
C
D
BATT
IGN
DR
ACC
141
F19
Lightning
Battery
15A
F72
Gearbox
15A
A13L
CONTROL UNIT
LIGHTNING TRANSMISSION
S35
Switch unit, GLU
(Gear Lever Unit)
B68B
Sensor,Output shaft
Speed, gearbox
n
XA4-D
FCTR-B
XA2-D
FCTR-A
TRSN-C
TRSN-B
TRSN-A
311-B
322-B
317-D
407-R
406-R
311-A
322-A
317-C
551-A
550-A
401
400
0Y-B
0Y-A
401-B
400-B
X401-C
X401-B
X400-C
X400-B
MCTR1-H
MCTR1-G
MCTR1-M
MCTR1-L
ADH4-C
312-D
199-G
MCTR1-A
MCTR1-B
FRCHF9-B
FRCHF72-B

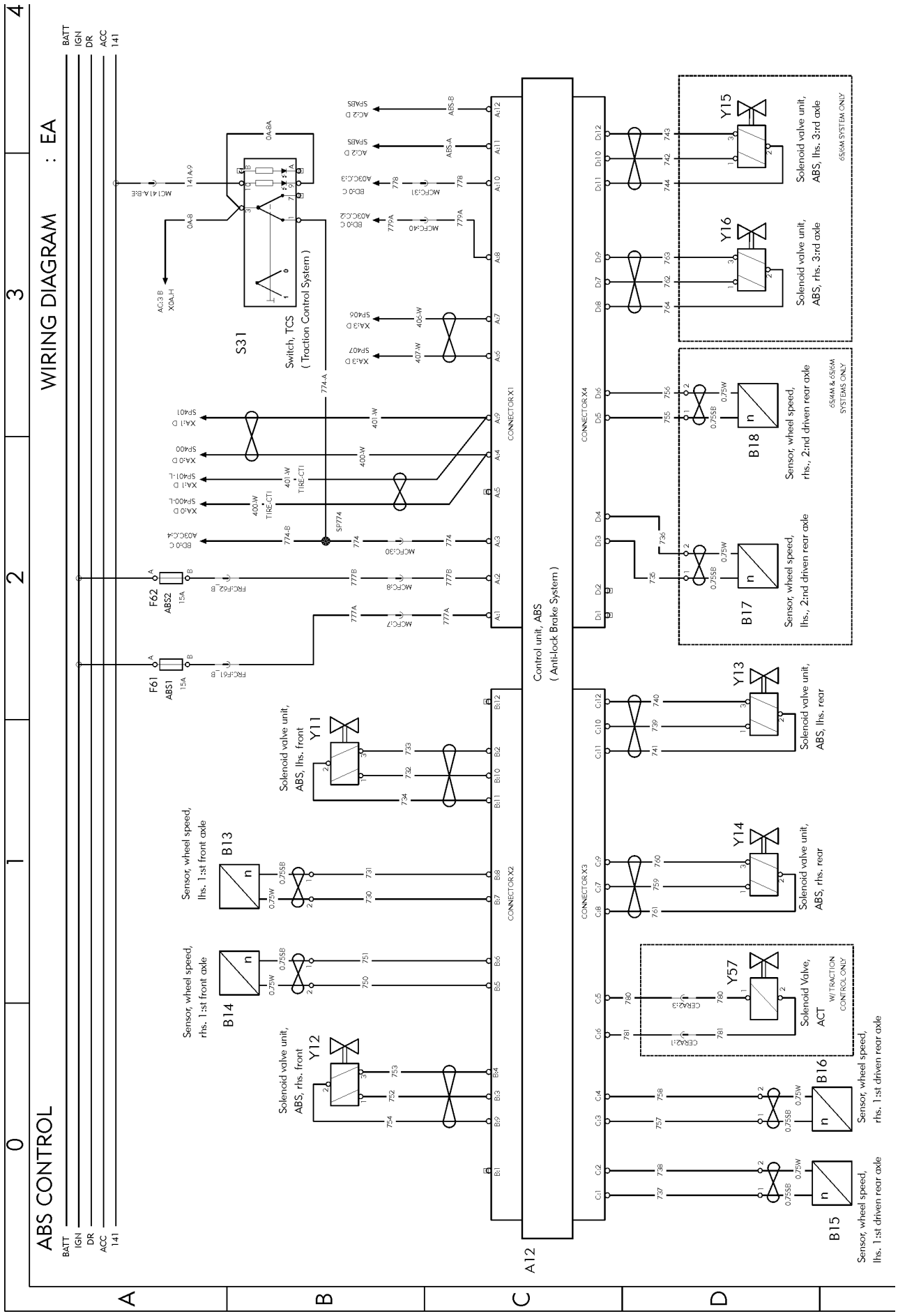

TRANSMISSION CONTROL MERITOR
WIRING DIAGRAM : DD
BATT
IGN
DR
ACC
141
F72
Gearbox
15A
A13M
CONTROL UNIT
MERITOR TRANSMISSION
S35M
SWITCH UNIT, GLU
(GEAR LEVER UNIT)
196G
196G-A
196G-B
310
0YA
311C
311D

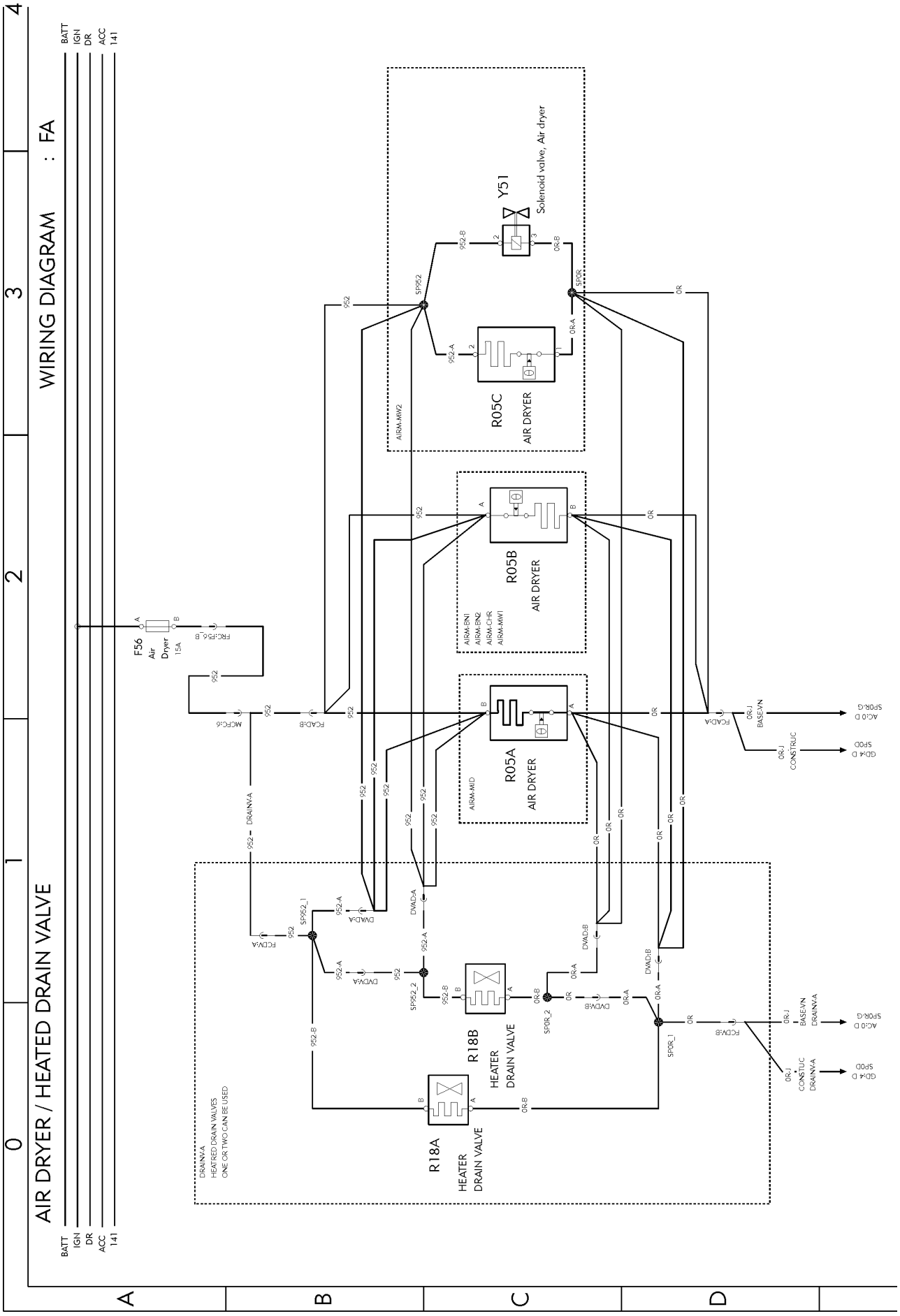

TRANSMISSION CONTROL ALLISON BLUE & BLACK CONN.
WIRING DIAGRAM : DE
BATT
IGN
DR
ACC
141
A19D
CONTROL UNIT, GECU
(GEAR SELECTOR ECU)
ALLISON TRANSMISSION
S24C
Switch, ON/OFF
Allison Retarder
S24A
SWITCH, STALK
ALLISON RETARDER
A57
ALLISON TRANSMISSION ECU: CONNECTOR BLACK
ALLISON TRANSMISSION ECU: CONNECTOR BLUE
A58
ALLISON TRANSMISSION: CONNECTOR A
ALLISON TRANSMISSION: CONNECTOR B

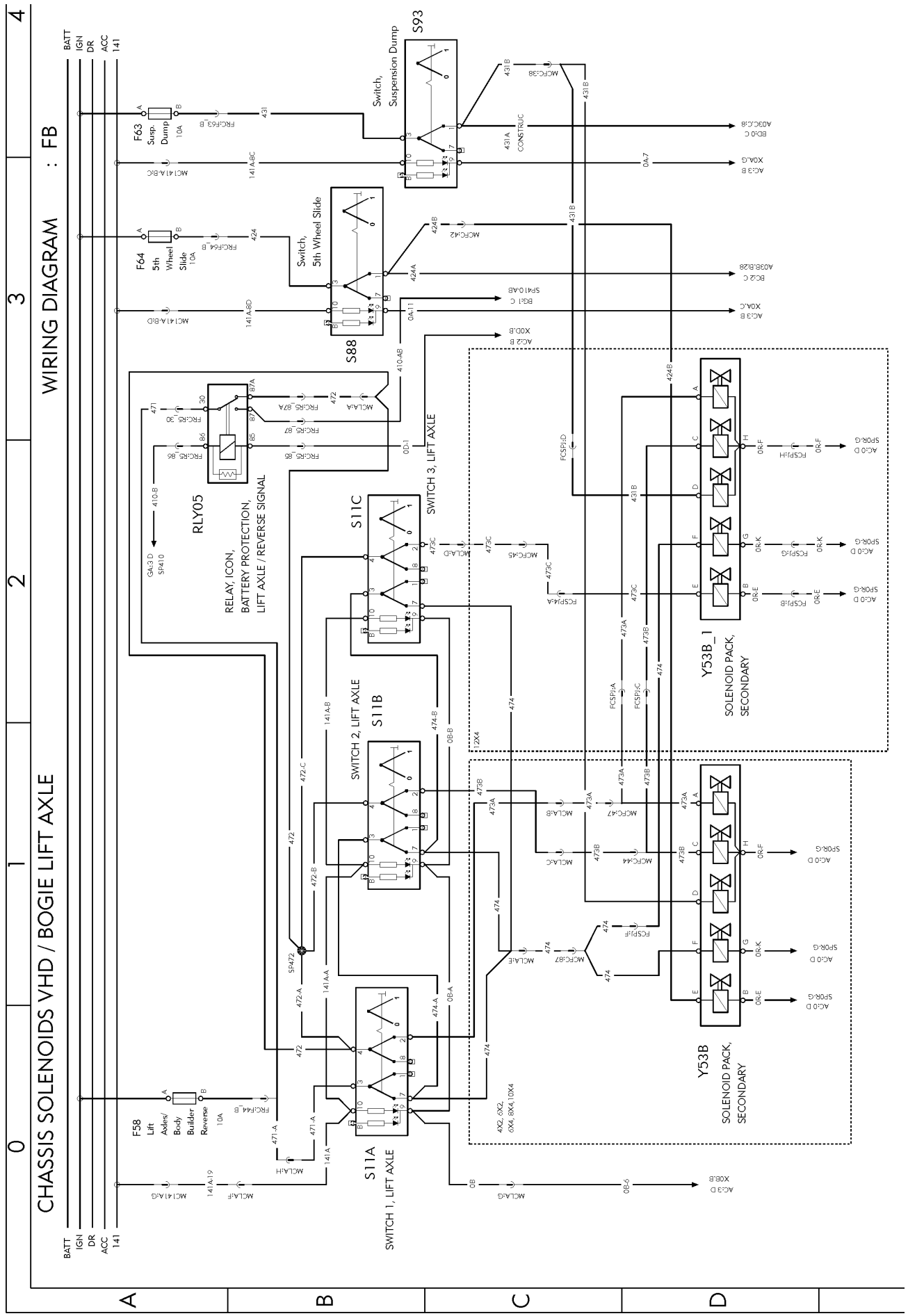

TRANSMISSION CONTROL ALLISON GREY CONN.
WIRING DIAGRAM : DF
BATT
IGN
DR
ACC
141
FB03
FUSE, BATTERY 1
TRANSMISSION
15A
FB04
FUSE, BATTERY 2
TRANSMISSION
15A
G01
Battery
A57
ALLISON TRANSMISSION ECU: CONNECTOR GRAY
F77
Allision
DR
10A
F72
Gearbox
15A
F78
Allision
Battery
10A
RLY21
RLY20
RLY18
RLY15
RLY14
RLY13_1

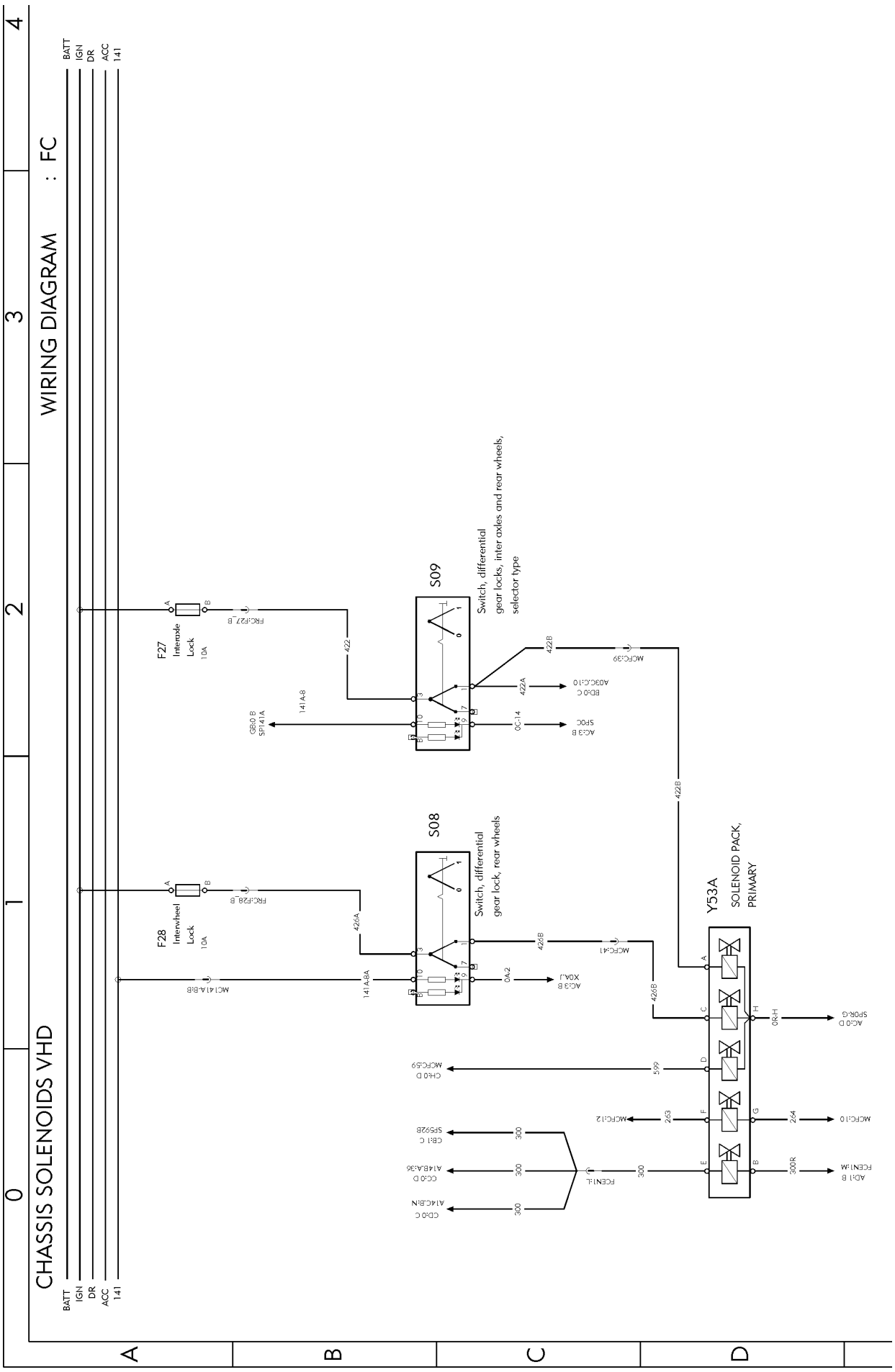

TRANSMISSION CONTROL FREEDOMLINE
WIRING DIAGRAM : DG
BATT
IGN
DR
ACC
141
Gearbox
15A
F72
A69
SHIFT
MODULE
A68
MERITOR
FREEDOMLINE
J1939
G01
Battery
FB03
FUSE, BATTERY 1
TRANSMISSION
15A

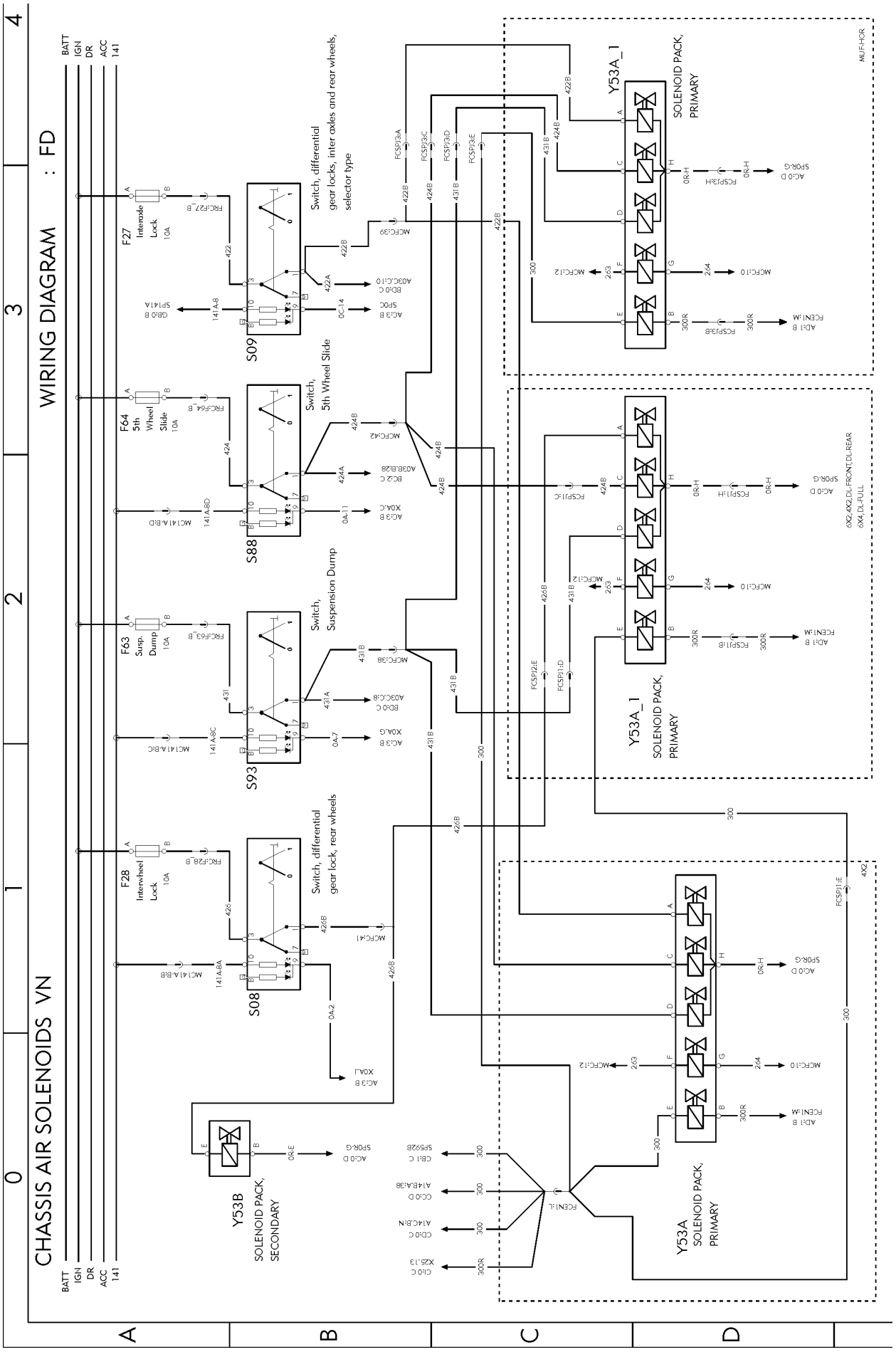

WIRING DIAGRAM : DP
PTO
BATT
IGN
DR
ACC
141
S28C
Switch, Power Take-Off
S28B
Switch, Power Take-Off
S28A
Switch, Power Take-Off
Y18B
SOLENOID VALVE ENGINE MOUNTED DUAL PTO
Y18A
SOLENOID VALVE SINGLE PTO
F75
PTO/ Dual PTO
5A
RLY07
RELAY, PTO
CONSTRUC PTO
PTO VN
141A-PT
639
639-A
639-B
639-C
639-D
639-E
639-F
639-G
639-H
639A
639A-A
639A-B
639A-C
639B
639W
0B-1
0B-2
0B-8
0B-PT
0R
0R-A
0R-B
573
573-A
573-B
SP639
SP639A
SP639-B
SP141A-PT
SP0B-PT
SP573
SP0R1
MCPTO2-A
FRC:R7_86
FRC:R7_30
FRC:R7_87
FRC:R7_85
FRC:F75_B
MCPTO1:A
MCPTO1:B
MCPTO1:C
MCPTO1:D
MCPTO2:A
MCPTO2:B
MCPTO2:C
MCPTO2:D
MCPTO3:A
MCPTO3:B
MCPTO3:C
MCPTO3:D
MCPTO4:A
MCPTO4:B
MCPTO4:C
MCPTO4:D
MCPTO5:A
MCPTO5:B
MCPTO5:C
MCPTO5:D
FCENT1:N
ENPTO:A
ENPTO:B
ENPTO:C
0PTO
X07
AD1:C
A17,B1:6
BB10 A
A17,A2:9
AC13 D
X06C:N
X06C:M
BG40 D
MC141A:B
141A-1
141A-2
141A-10
141A-PT

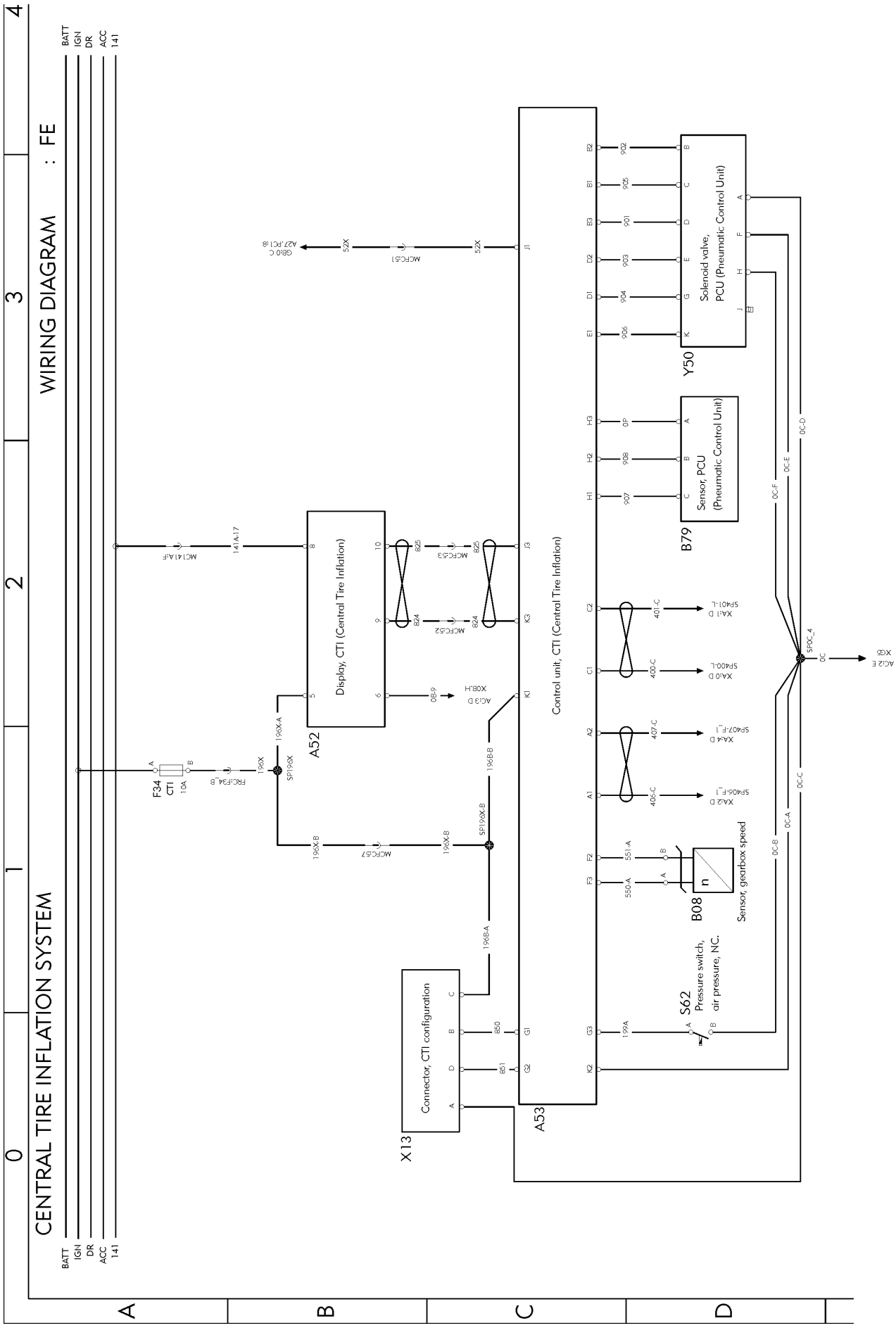

ABS CONTROL
WIRING DIAGRAM : EA
BATT
IGN
DR
ACC
141
Control unit, ABS
(Anti-lock Brake System)
A12
Switch, TCS
(Traction Control System)
S31
F61
ABS1
15A
F62
ABS2
15A
CONNECTOR X1
CONNECTOR X2
CONNECTOR X3
CONNECTOR X4
Sensor, wheel speed, lhs. 1:st front axle
Sensor, wheel speed, rhs. 1:st front axle
Sensor, wheel speed, lhs., 2:nd driven rear axle
Sensor, wheel speed, rhs., 2:nd driven rear axle
Sensor, wheel speed, lhs. 1:st driven rear axle
Sensor, wheel speed, rhs. 1:st driven rear axle
Solenoid valve unit, ABS, lhs. front
Solenoid valve unit, ABS, rhs. front
Solenoid valve unit, ABS, lhs. rear
Solenoid valve unit, ABS, rhs. rear
Solenoid valve unit, ABS, lhs. 3:rd axle
Solenoid valve unit, ABS, rhs. 3:rd axle
Solenoid Valve, ACT
W/ TRACTION CONTROL ONLY
65/44M & 65/66M SYSTEMS ONLY
65/66M SYSTEM ONLY

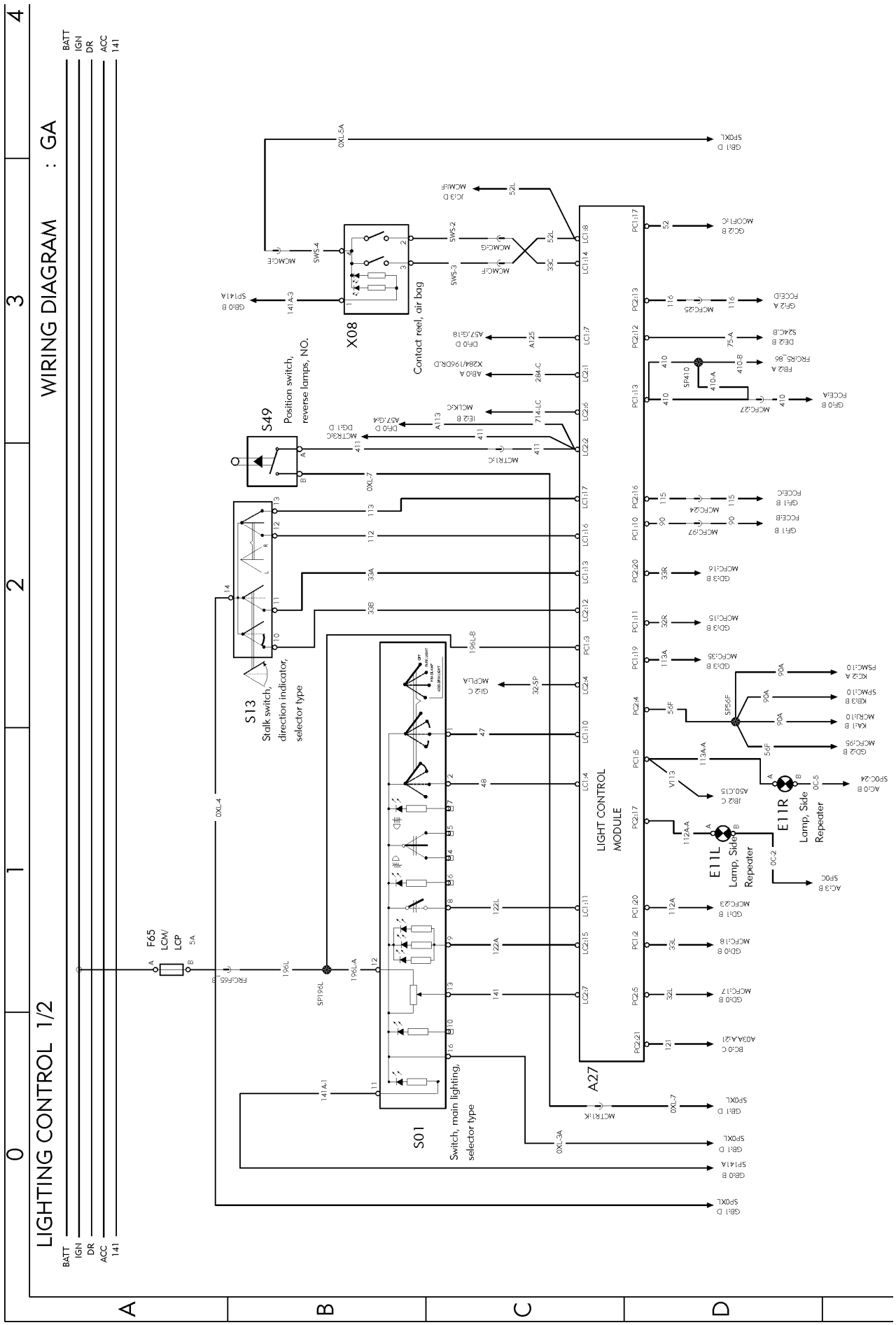

AIR DRYER / HEATED DRAIN VALVE
WIRING DIAGRAM : FA
BATT
IGN
DR
ACC
141
F56
Air Dryer
15A
R05C
AIR DRYER
AIRM-MW2
Y51
Solenoid valve, Air dryer
R05B
AIR DRYER
AIRM-BN1
AIRM-BN2
AIRM-CHR
AIRM-MW1
R05A
AIR DRYER
AIRM-MID
R18B
HEATER
DRAIN VALVE
R18A
HEATER
DRAIN VALVE
DRAIN:A
HEATRED DRAIN VALVES
ONE OR TWO CAN BE USED
952
OR
DRAIN:A
SP952
SP952_1
SP952_2
SPOR
SPOR_1
SPOR_2
DVAD:A
DVAD:B
DVDV:A
DVDV:B
FCDV:A
FCDV:B
FCAD:A
FCAD:B
MCFC:6
FRC:F56_B
BASE:VN
CONSTRUC
DRAIN:A
A:C:0 D
G:D:4 D
SP0R:G
SP0D

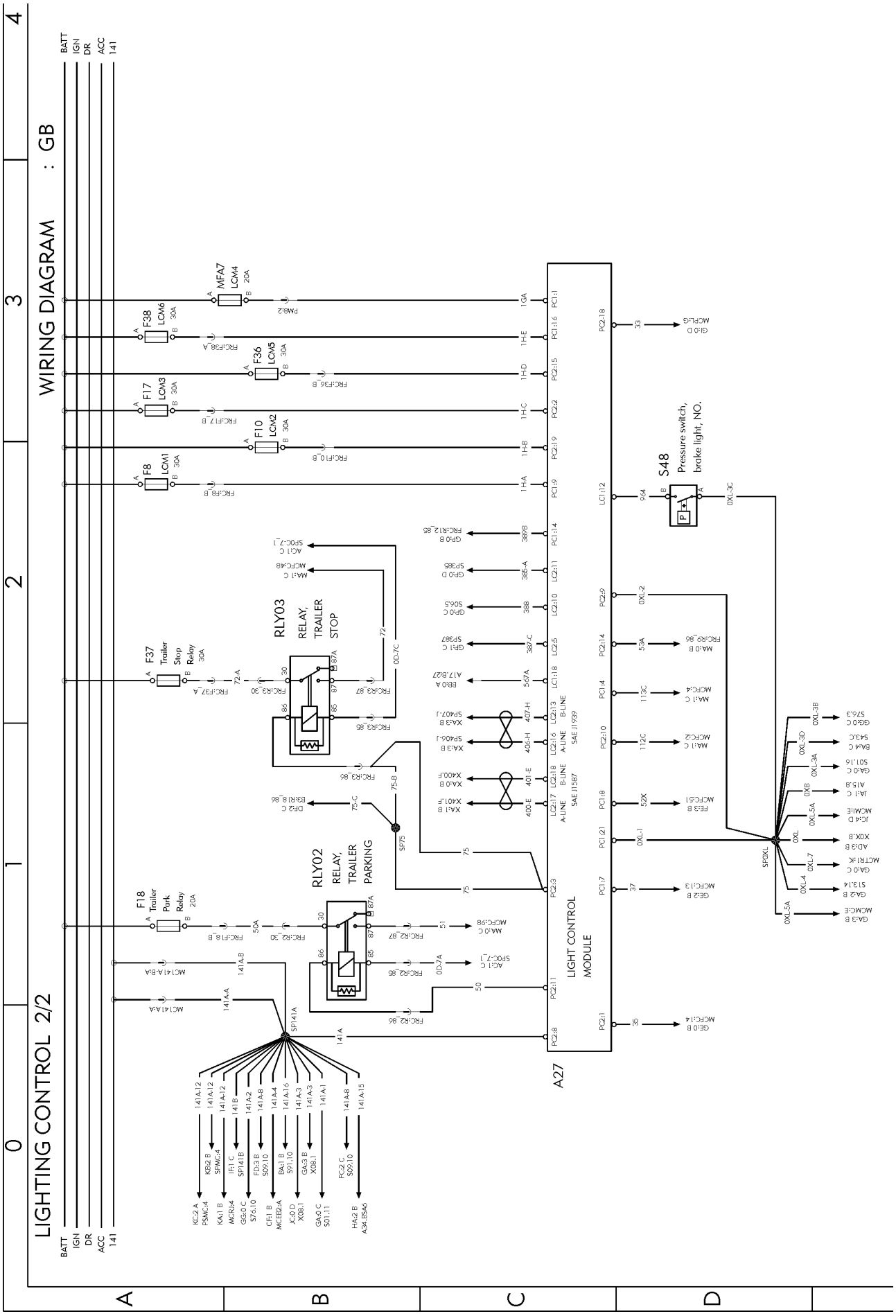

CHASSIS SOLENOIDS VHD / BOGIE LIFT AXLE : FB
WIRING DIAGRAM
BATT
IGN
DR
ACC
141
F63 Susp. Dump 10A
F64 5th Wheel Slide 10A
F58 Lift Axles/ Body Builder Reverse 10A
Switch, Suspension Dump
S93
Switch, 5th Wheel Slide
S88
RLY05
RELAY, ICON, BATTERY PROTECTION, LIFT AXLE / REVERSE SIGNAL
S11C
SWITCH 3, LIFT AXLE
S11B
SWITCH 2, LIFT AXLE
S11A
SWITCH 1, LIFT AXLE
Y53B_1
SOLENOID PACK, SECONDARY
Y53B
SOLENOID PACK, SECONDARY
4X2, 6X2, 6X4, 8X4, 10X4
12X4
0
1
2
3
4
A
B
C
D

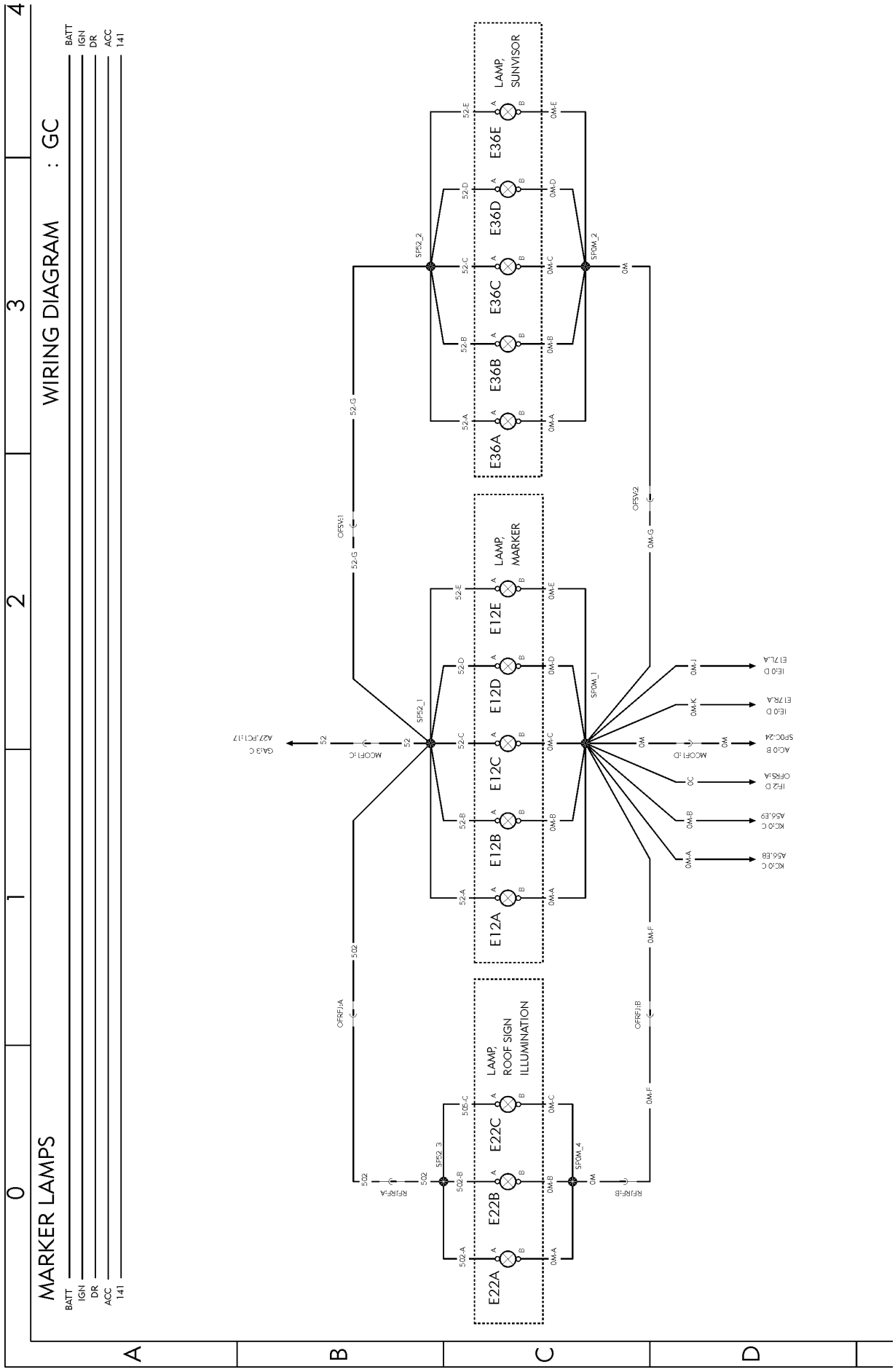

CHASSIS SOLENOIDS VHD
WIRING DIAGRAM : FC
BATT
IGN
DR
ACC
141
F27
Interaxle
Lock
10A
F28
Interwheel
Lock
10A
S09
Switch, differential
gear locks, inter axles and rear wheels,
selector type
S08
Switch, differential
gear lock, rear wheels
Y53A
SOLENOID PACK,
PRIMARY
422
422A
422B
426A
426B
426B
599
263
264
300
300R
300
300
300
FCENTJA
FCENTJB
FCENTJM
SP0RLG
MCFC:10
MCFC:12
CH:0 D
CB:1 C
SP592B
CC:0 D
A14B:A36
CD:0 C
A14C:B:N
AD:1 B
AC:0 D
0R-H
AC:3 B
SP0C
AC:3 B
X0A:J
BD:0 C
A03C:C:10
MCFC:39
MCFC:41
MC141A-B8
141A-8A
0A-2
141A-8
GB:0 B
SP141A
FRC:F27_B
FRC:F28_B

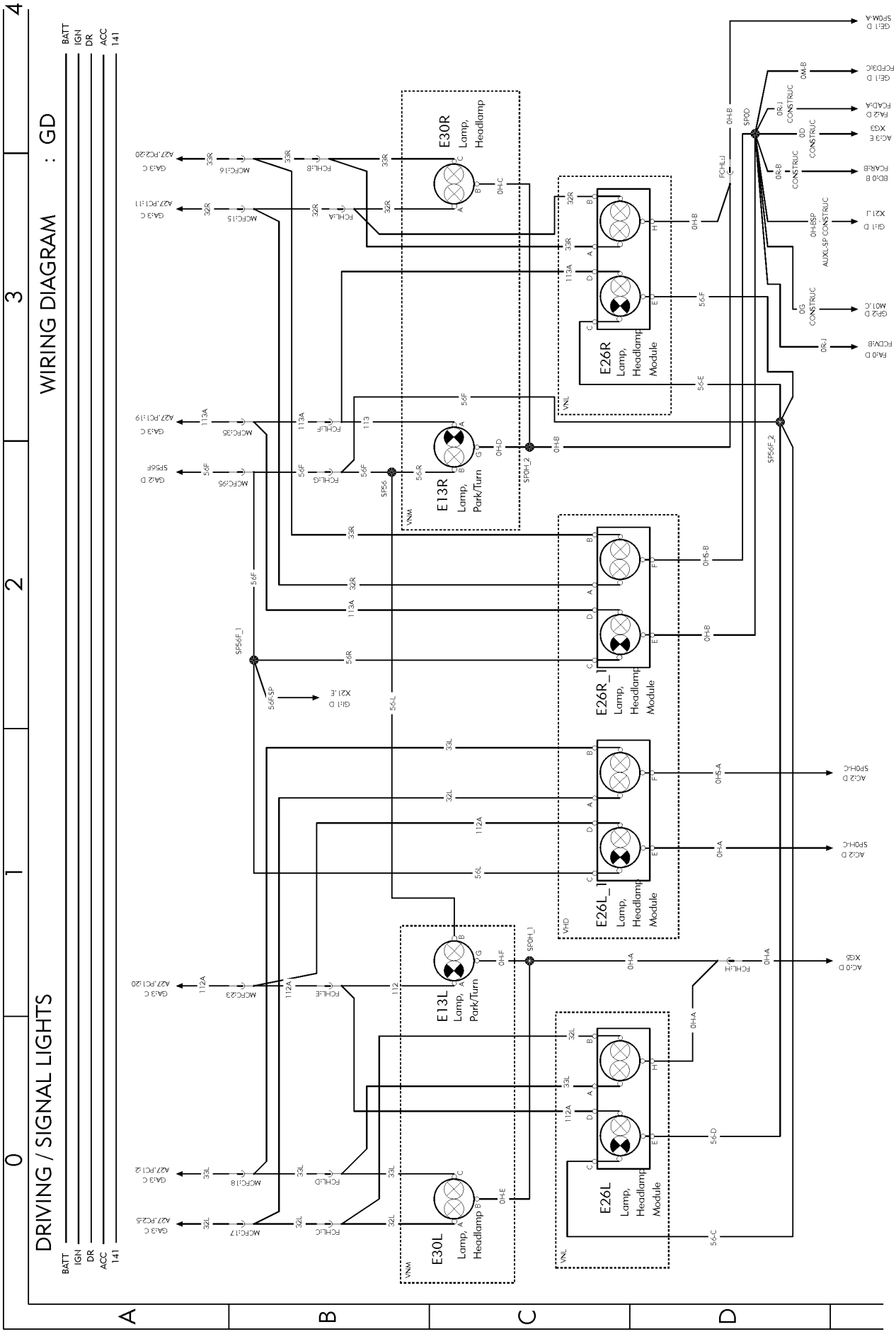

CHASSIS AIR SOLENOIDS VN
WIRING DIAGRAM : FD
BATT
IGN
DR
ACC
141
F27 Interaxle Lock 10A
F64 5th Wheel Slide 10A
F63 Susp. Dump 10A
F28 Interwheel Lock 10A
S09
S88
S93
S08
Switch, differential gear locks, inter axles and rear wheels, selector type
Switch, 5th Wheel Slide
Switch, Suspension Dump
Switch, differential gear lock, rear wheels
Y53A_1 SOLENOID PACK, PRIMARY
Y53A SOLENOID PACK, PRIMARY
Y53B SOLENOID PACK, SECONDARY
MUF-HOR
4X2
6X2, 4X2, DL-FRONT, DL-REAR
6X4, DL-FULL

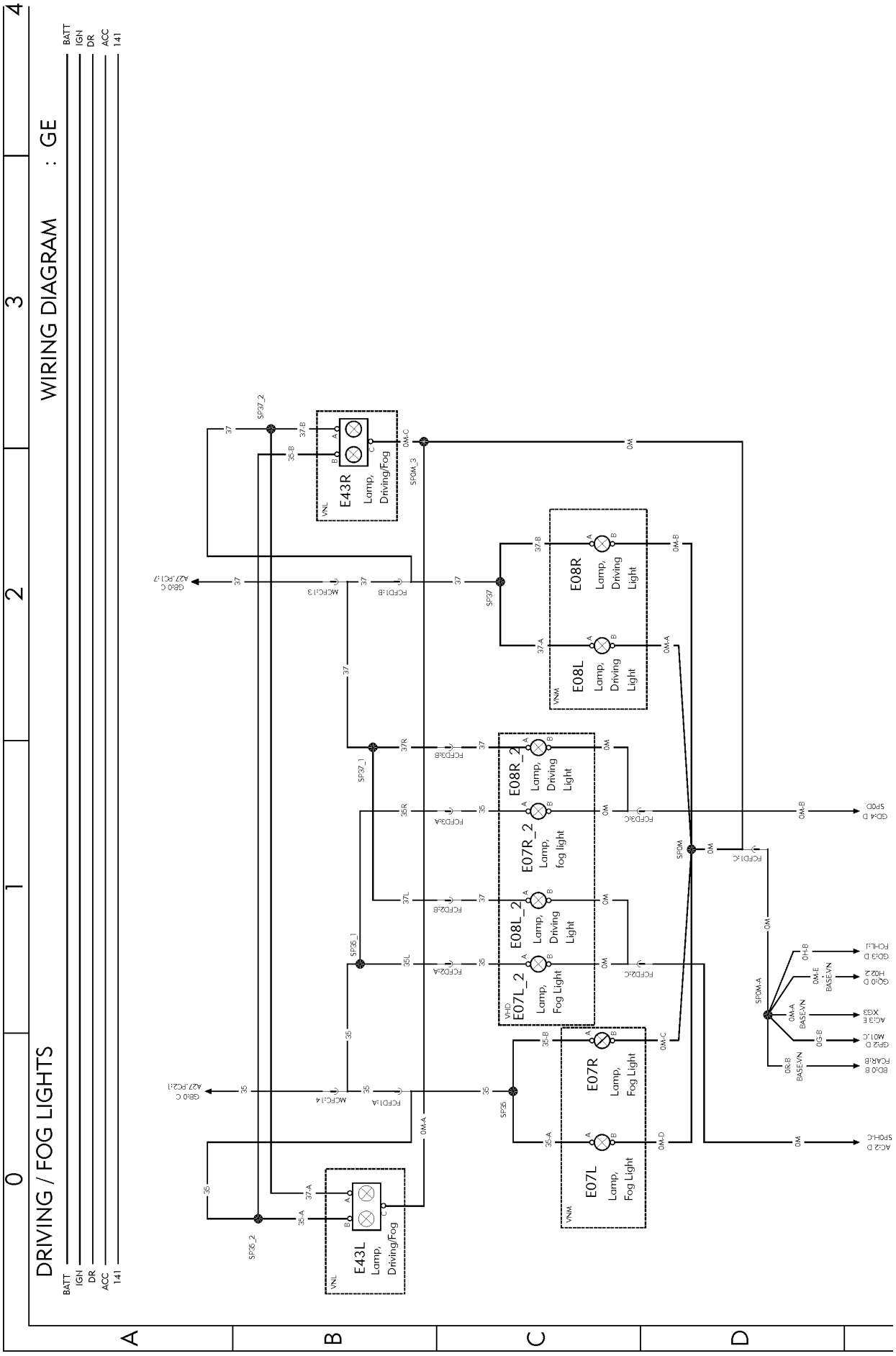

CENTRAL TIRE INFLATION SYSTEM
WIRING DIAGRAM : FE
BATT
IGN
DR
ACC
141
F34
CTI
10A
A52
Display, CTI (Central Tire Inflation)
A53
Control unit, CTI (Central Tire Inflation)
X13
Connector, CTI configuration
Y50
Solenoid valve, PCU (Pneumatic Control Unit)
B79
Sensor, PCU (Pneumatic Control Unit)
B08
Sensor, gearbox speed
S62
Pressure switch, air pressure, NC.

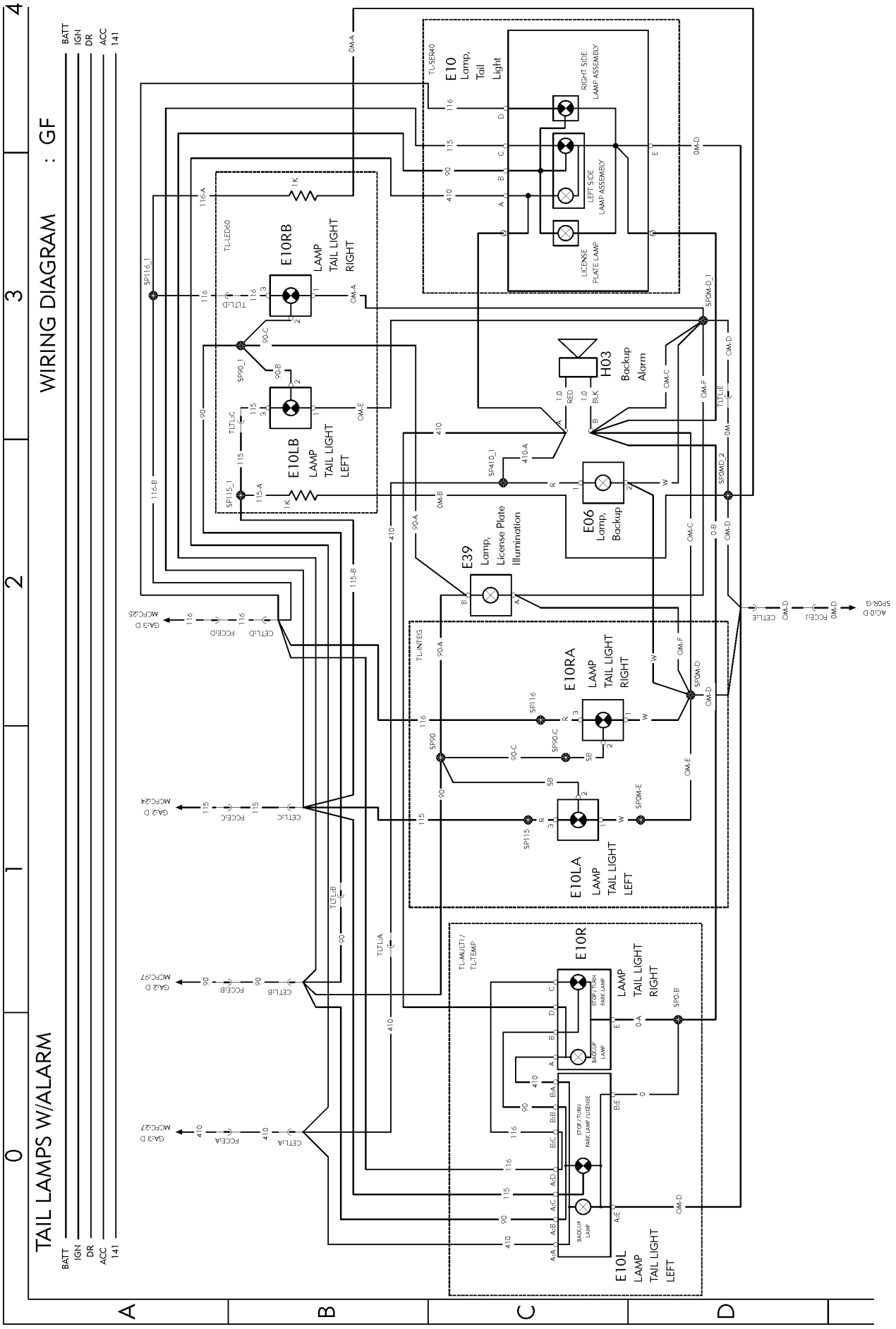

LIGHTING CONTROL 1/2
WIRING DIAGRAM : GA
BATT
IGN
DR
ACC
141
F65
LCM/
LCP
5A
S01
Switch, main lighting, selector type
S13
Stalk switch, direction indicator, selector type
S49
Position switch, reverse lamps, NO.
X08
Contact reel, air bag
A27
LIGHT CONTROL MODULE
E11L
Lamp, Side Repeater
E11R
Lamp, Side Repeater

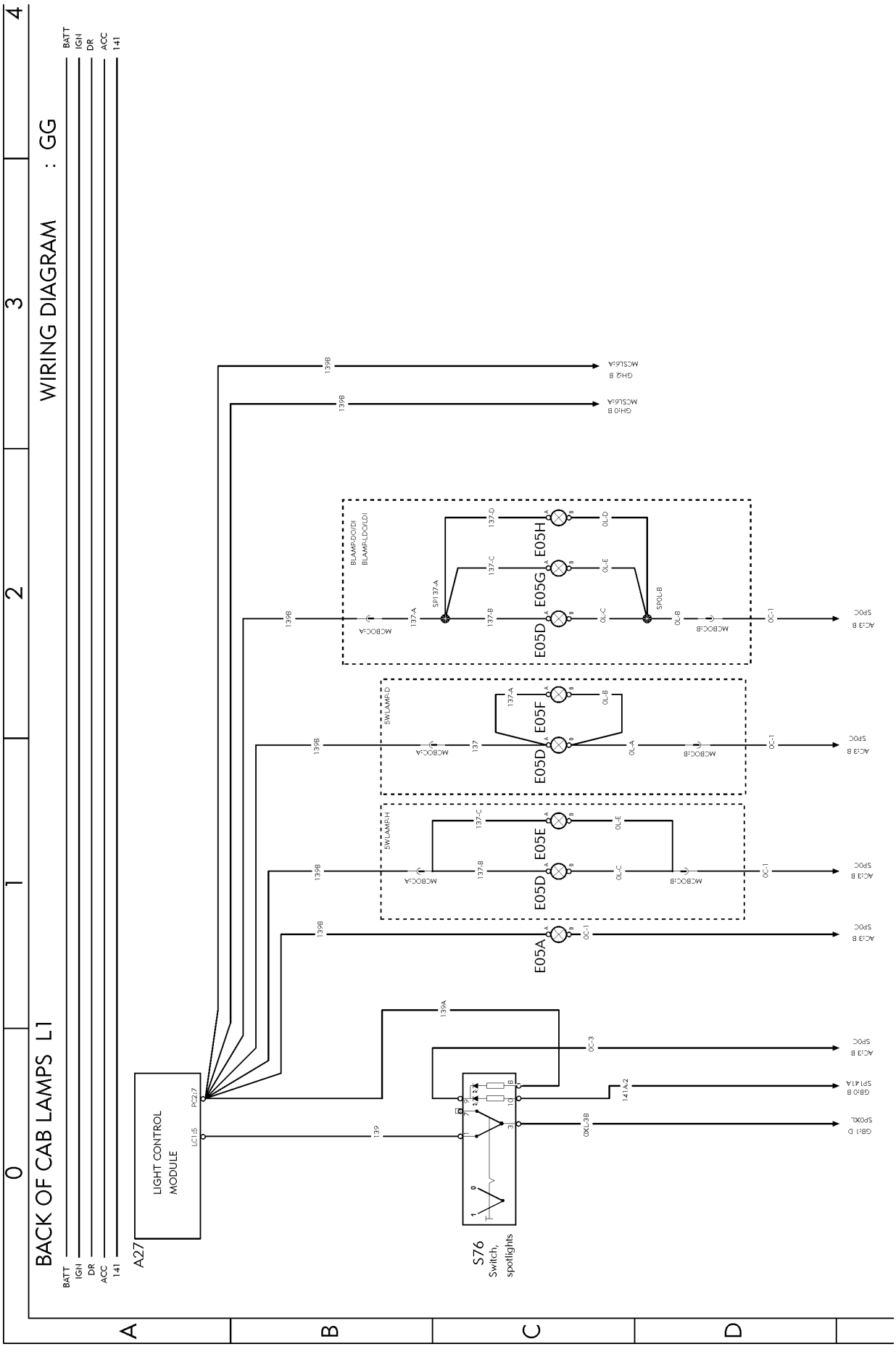

LIGHTING CONTROL 2/2
WIRING DIAGRAM : GB
BATT
IGN
DR
ACC
141
F18 Trailer Park Relay 20A
F37 Trailer Stop Relay 30A
F8 LCM1 30A
F10 LCM2 30A
F17 LCM3 30A
F36 LCM5 30A
F38 LCM6 30A
MFA7 LCM4 20A
RLY02 RELAY, TRAILER PARKING
RLY03 RELAY, TRAILER STOP
S48 Pressure switch, brake light, NO.
A27 LIGHT CONTROL MODULE
SP141A
SP75
SP0XL

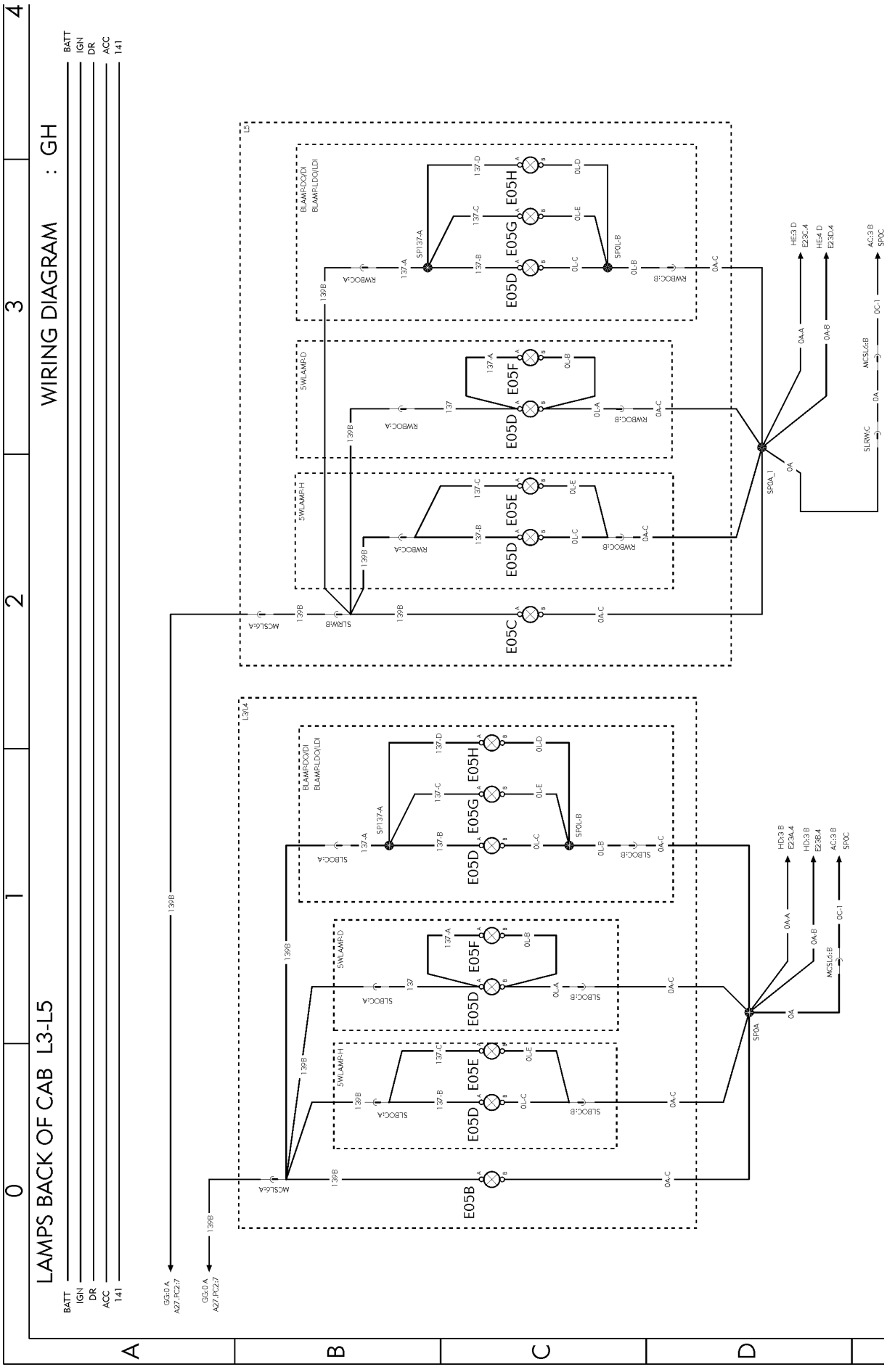

MARKER LAMPS
WIRING DIAGRAM : GC
BATT
IGN
DR
ACC
141
LAMP, SUNVISOR
LAMP, MARKER
LAMP, ROOF SIGN ILLUMINATION
E36A
E36B
E36C
E36D
E36E
E12A
E12B
E12C
E12D
E12E
E22A
E22B
E22C
SP52_2
SP52_1
SP52_3
SPDM_2
SPDM_1
SPDM_4
OFSV-1
OFSV-2
OFRF-A
OFRF-B
MCOFI-C
MCOFI-D
REFRF-A
REFRF-B
A
B
C
D
0
1
2
3
4

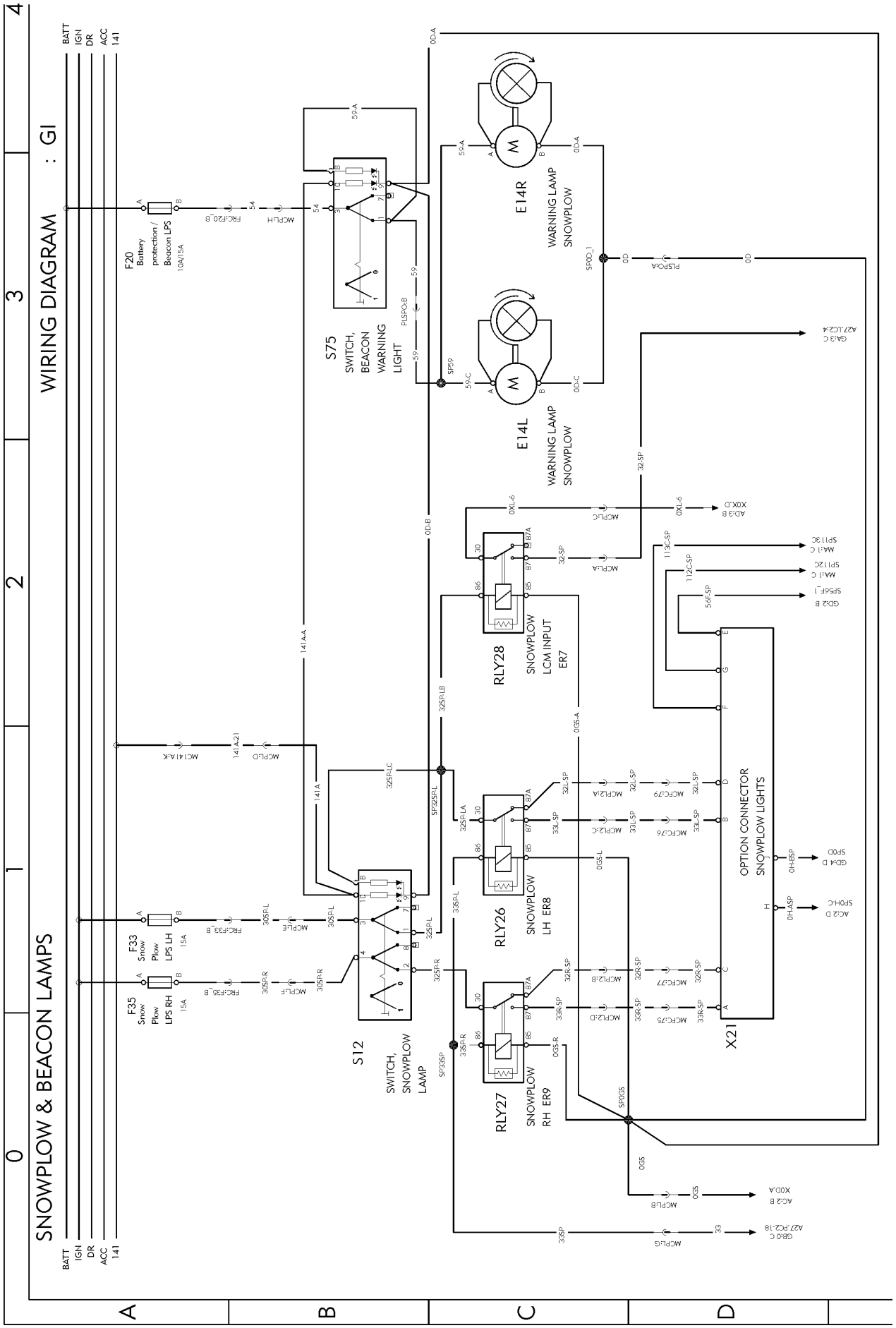

DRIVING / SIGNAL LIGHTS
WIRING DIAGRAM : GD
BATT
IGN
DR
ACC
141
E30R Lamp, Headlamp
E13R Lamp, Park/Turn
E26R Lamp, Headlamp Module
E26R_1 Lamp, Headlamp Module
E26L_1 Lamp, Headlamp Module
E13L Lamp, Park/Turn
E30L Lamp, Headlamp
E26L Lamp, Headlamp Module
VNA
VNL
VHD
SP56
SP56F_1
SP56F_2
SP0H_2
SP0H_1
SP0D
FCHLJ
FCHLA
FCHLB
FCHLF
FCHLG
FCHLE
FCHLH
FCHLD
FCHLC
MCFC:35
MCFC:95
MCFC:23
MCFC:17
MCFC:18
MCFC:16
MCFC:15
MCFC:20
MCFC:19
A27,PC2:20
A27,PC1:11
A27,PC2:5
A27,PC1:12
A27,PC1:20
A27,PC1:19
GA:3 C
GA:2 D
GE1 D
FA2 D
AC3 E
BD:0 B
FCAR:B
GI:1 D
XZ1 J
GP2 D
M01 C
FA:0 D
FCDV:B
AC:2 D
AC:0 D
XG5
X21 E
X21 J
0H-B
0H-C
0H-D
0H-F
0H-A
0H-E
0H-S-B
0H-S-A
0H-BSP
0M-B
0R-J
0D
0R-B
0G
56-F
56-E
56-D
56-C
56-L
56-R
56-6SP
33R
32R
113A
113
33L
32L
112A
112
AUXL-SP CONSTRUC
CONSTRUC
A
B
C
D
0
1
2
3
4

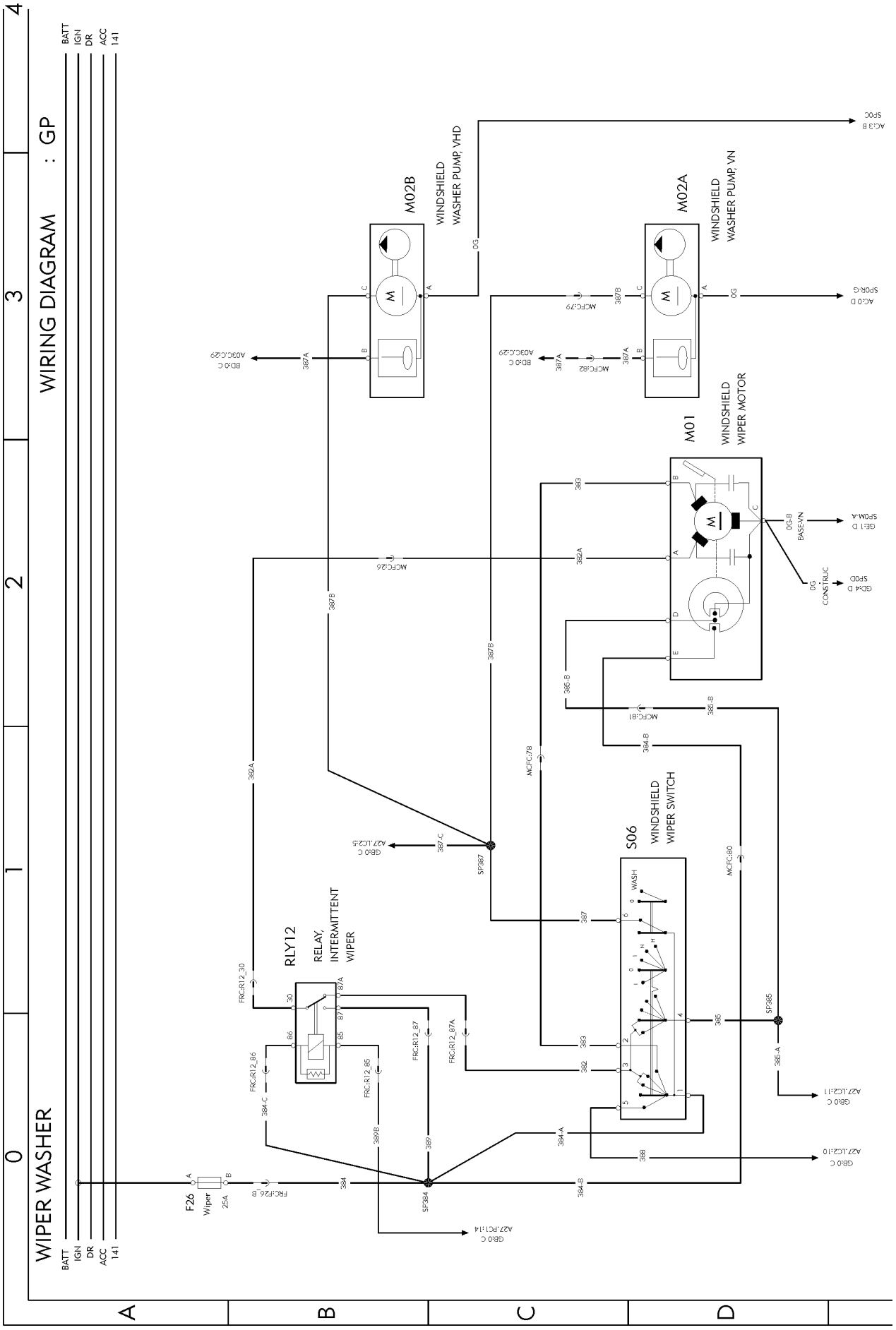

DRIVING / FOG LIGHTS
WIRING DIAGRAM : GE
BATT
IGN
DR
ACC
141
E43R
Lamp,
Driving/Fog
VNL
E43L
Lamp,
Driving/Fog
VNL
E08R
Lamp,
Driving
Light
E08L
Lamp,
Driving
Light
VNM
E08R_2
Lamp,
Driving
Light
E07R_2
Lamp,
fog light
E08L_2
Lamp,
Driving
Light
E07L_2
Lamp,
Fog Light
VHD
E07R
Lamp,
Fog Light
E07L
Lamp,
Fog Light
VNM
SF37_2
SF37
SF37_1
SF35_1
SF35
SF35_2
SPDM_3
SPDM
SPDM-A
SP0H-C
SPDD
RCHL-1
FCAR-B
XGS
M01-C
Z102-2
GD4-D
GD3-D
GP2-D
AC3-E
AC2-D
BD3-B
GB10-C
A27,PC1:7
A27,PC2:1
MCFC1:13
MCFC1:4
RCFD1:B
RCFD1:A
RCFD1:C
RCFD3:B
RCFD3:A
RCFD3:C
RCFD2:B
RCFD2:A
RCFD2:C
0M
0M-A
0M-B
0M-C
0M-D
0M-E
0H-B
0G-B
0R-B
BASE-VN
37
37R
37L
37-A
37-B
35
35R
35L
35-A
35-B

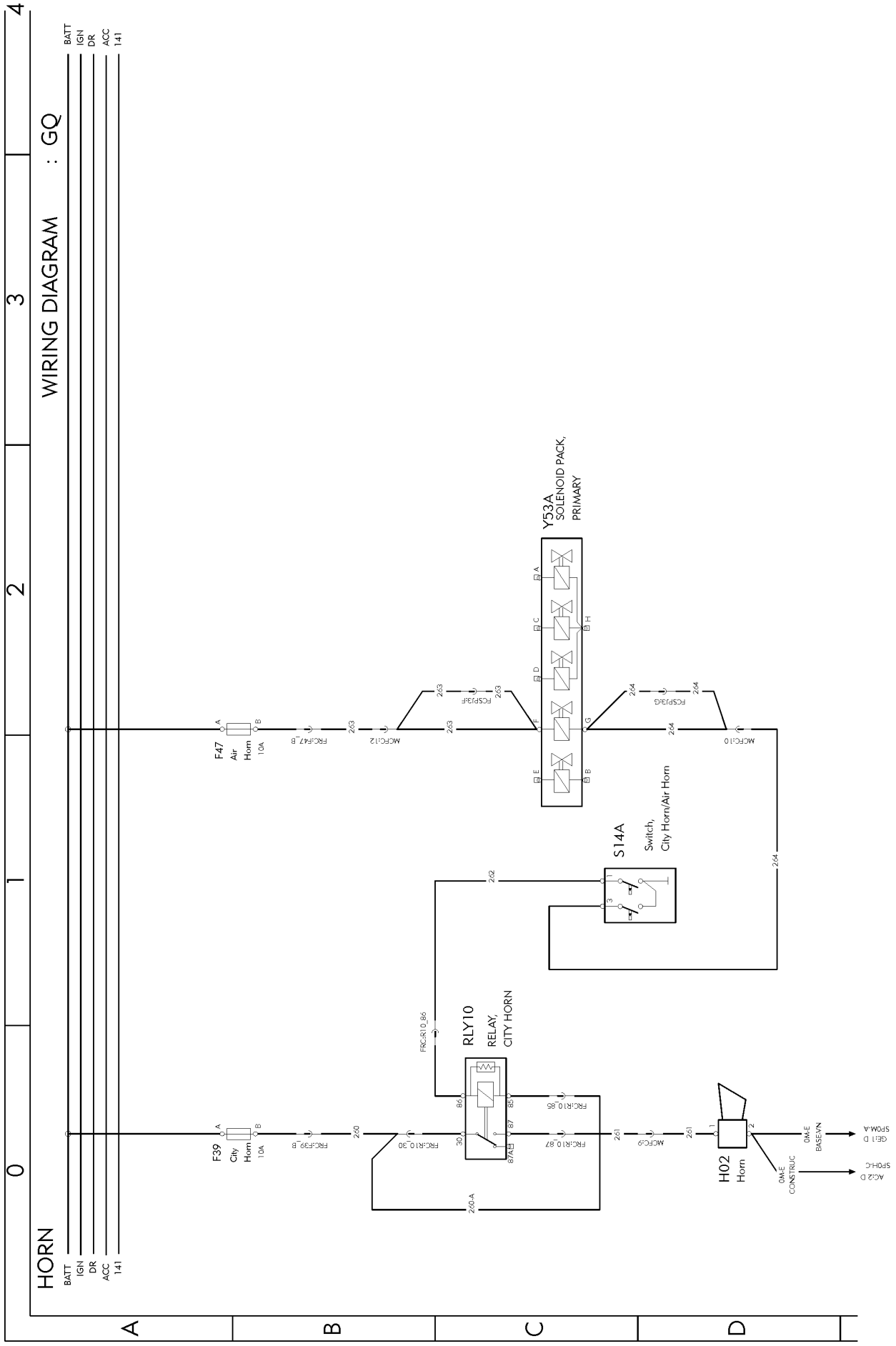

TAIL LAMPS W/ALARM
WIRING DIAGRAM : GF
BATT
IGN
DR
ACC
141
E10 Lamp, Tail Light
RIGHT SIDE LAMP ASSEMBLY
LEFT SIDE LAMP ASSEMBLY
LICENSE PLATE LAMP
E10RB LAMP TAIL LIGHT RIGHT
E10LB LAMP TAIL LIGHT LEFT
H03 Backup Alarm
E06 Lamp, Backup
E39 Lamp, License Plate Illumination
E10RA LAMP TAIL LIGHT RIGHT
E10LA LAMP TAIL LIGHT LEFT
E10R LAMP TAIL LIGHT RIGHT
E10L LAMP TAIL LIGHT LEFT
STOP/TURN PARK LAMP
BACKUP LAMP
STOP/TURN PARK LAMP/LICENSE
TL-SER40
TL-LED60
TL-UNTEG
TL-MULTI / TL-TEMP
SP116_1
SP90_1
SP115_1
SP410_1
SPDM-D_1
SPDM-D_2
SP116
SP90
SP115
SPDM-D
SPDM-E
SP0-B
SP0R-G
1K
1.0 RED
1.0 BLK
GA3 D MCFC:25
GA2 D MCFC:24
GA2 D MCFC:97
GA3 D MCFC:27
FCCEA
FCCEB
FCCEC
FCCED
CETLA
CETLB
CETLC
CETLD
CETLE
TLTL-A
TLTL-B
TLTL-C
TLTL-E
A
B
C
D
0
1
2
3
4

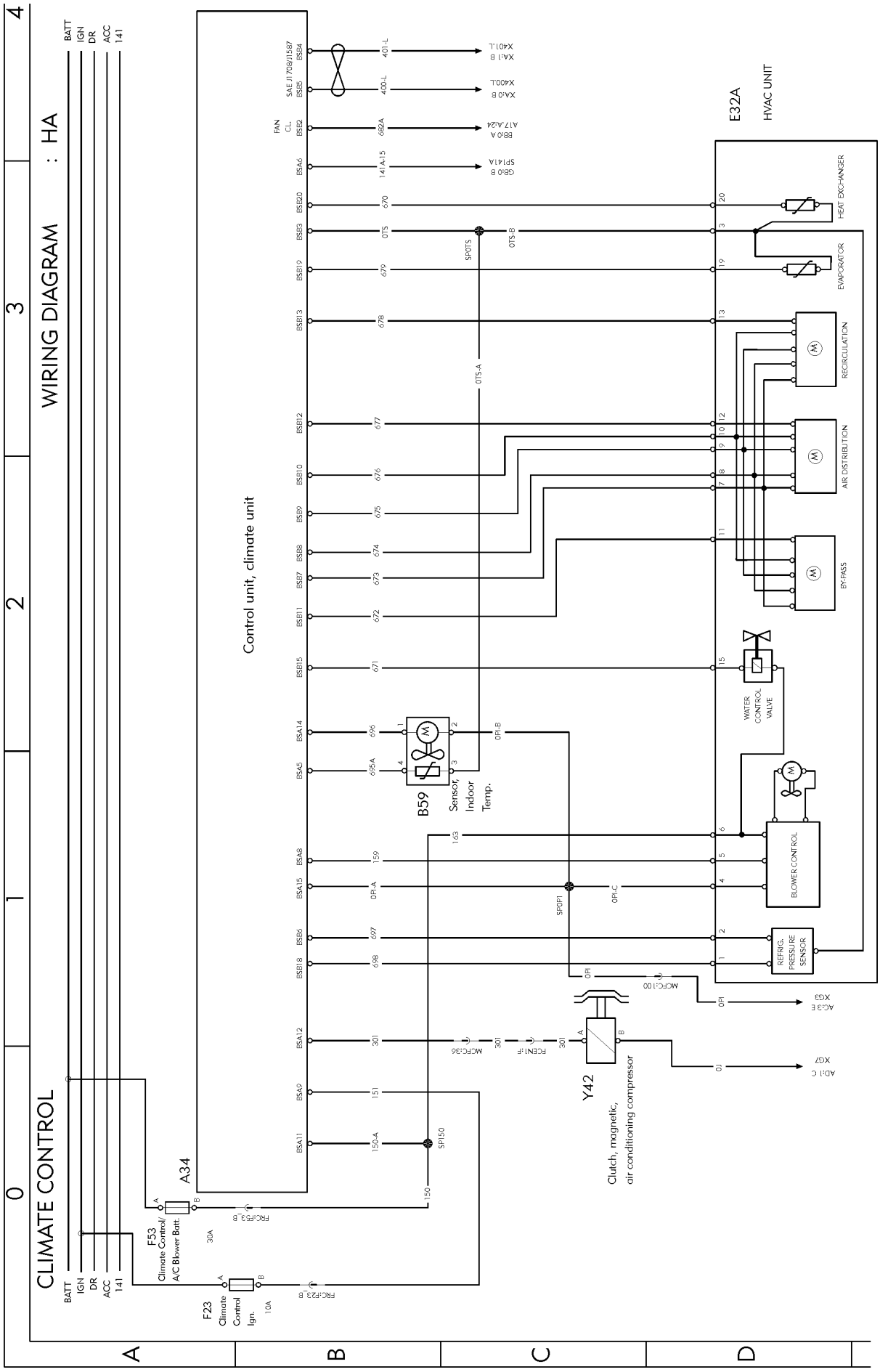

BACK OF CAB LAMPS L1
WIRING DIAGRAM : GG
BATT
IGN
DR
ACC
141
A27
LIGHT CONTROL MODULE
S76
Switch, spotlights
E05A
E05D
E05E
E05F
E05G
E05H
SWLAMP-D
SWLAMP-H
BLAMP-DO/DI
BLAMP-LDO/LDI

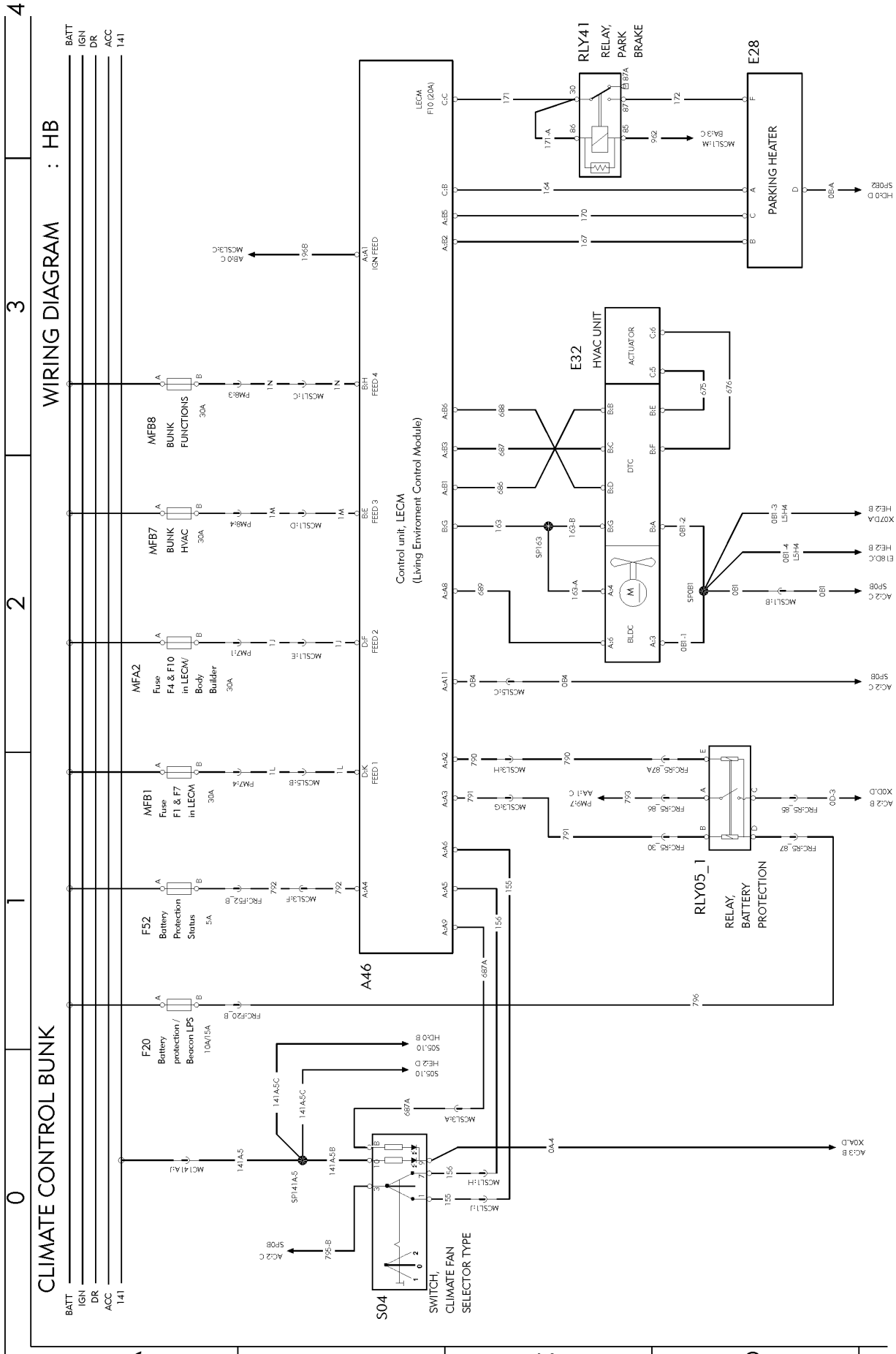

LAMPS BACK OF CAB L3-L5
WIRING DIAGRAM : GH
BATT
IGN
DR
ACC
141
L5
L3\4
BLAMP:DO/DI
BLAMP:LDO/LDI
5WLAMP:D
5WLAMP:H
E05H
E05G
E05F
E05E
E05D
E05C
E05B
SP137-A
SP0L-B
RWBOC:A
RWBOC:B
SLBOC:A
SLBOC:B
MCSL6:A
MCSL6:B
SLRW:B
SLRW:C
SP0A_1
SP0A
HE:3 D
E23C-4
HE:4 D
E23D-4
AC:3 B
SP0C
HD:3 B
E23A-4
HD:3 B
E23B-4
0C-1
0A-A
0A-B
0A-C
0A
0L-A
0L-B
0L-C
0L-D
0L-E
139B
137
137-A
137-B
137-C
137-D
GG:0 A
A27, PC2-7

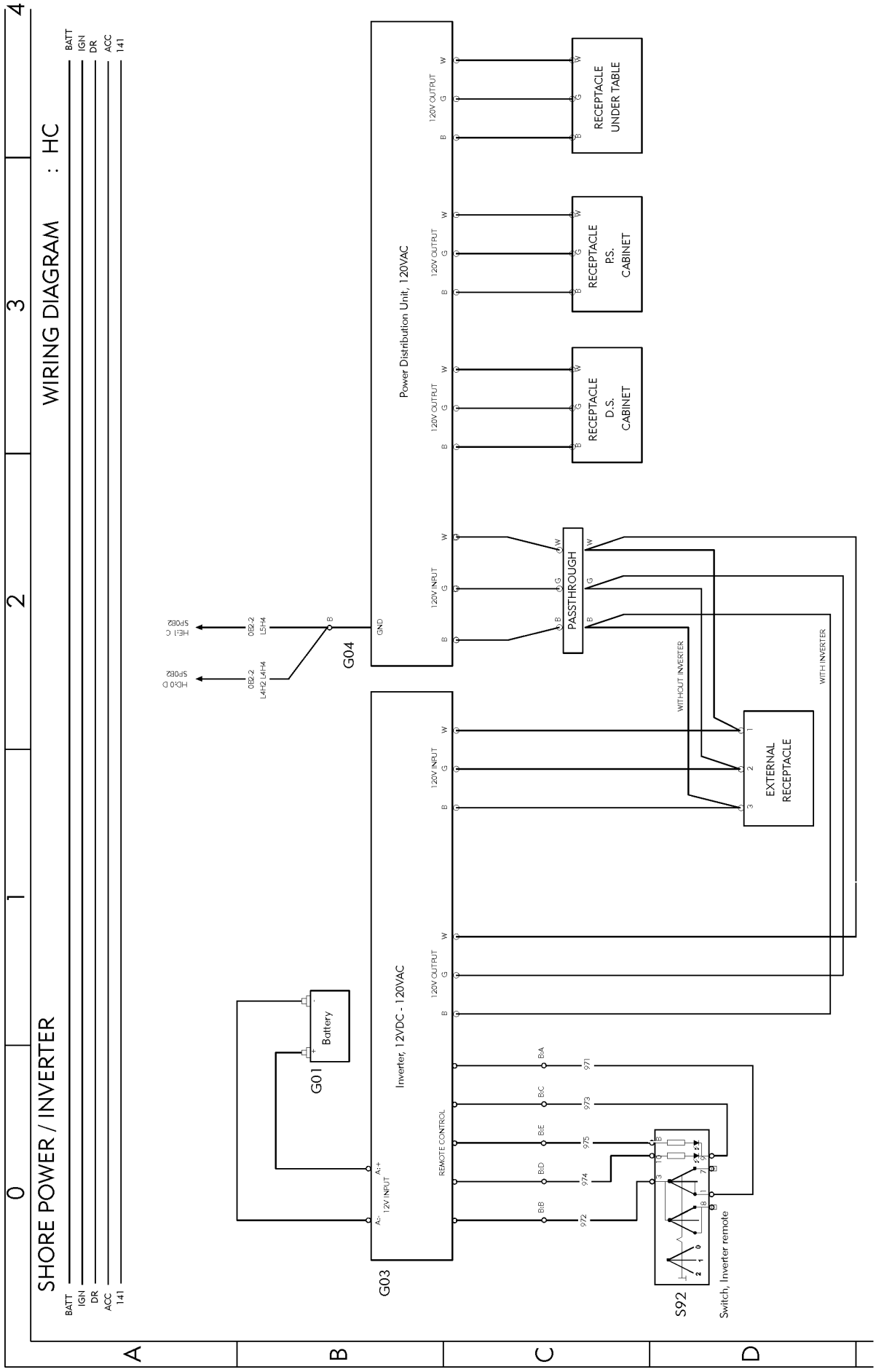

SNOWPLOW & BEACON LAMPS
WIRING DIAGRAM : GI
BATT
IGN
DR
ACC
141
F20
Battery protection / Beacon LPS
10A/15A
S75
SWITCH, BEACON WARNING LIGHT
E14R
WARNING LAMP SNOWPLOW
E14L
WARNING LAMP SNOWPLOW
F33
Snow Plow LPS LH
15A
F35
Snow Plow LPS RH
15A
S12
SWITCH, SNOWPLOW LAMP
RLY28
SNOWPLOW LCM INPUT ER7
RLY26
SNOWPLOW LH ER8
RLY27
SNOWPLOW RH ER9
X21
OPTION CONNECTOR SNOWPLOW LIGHTS

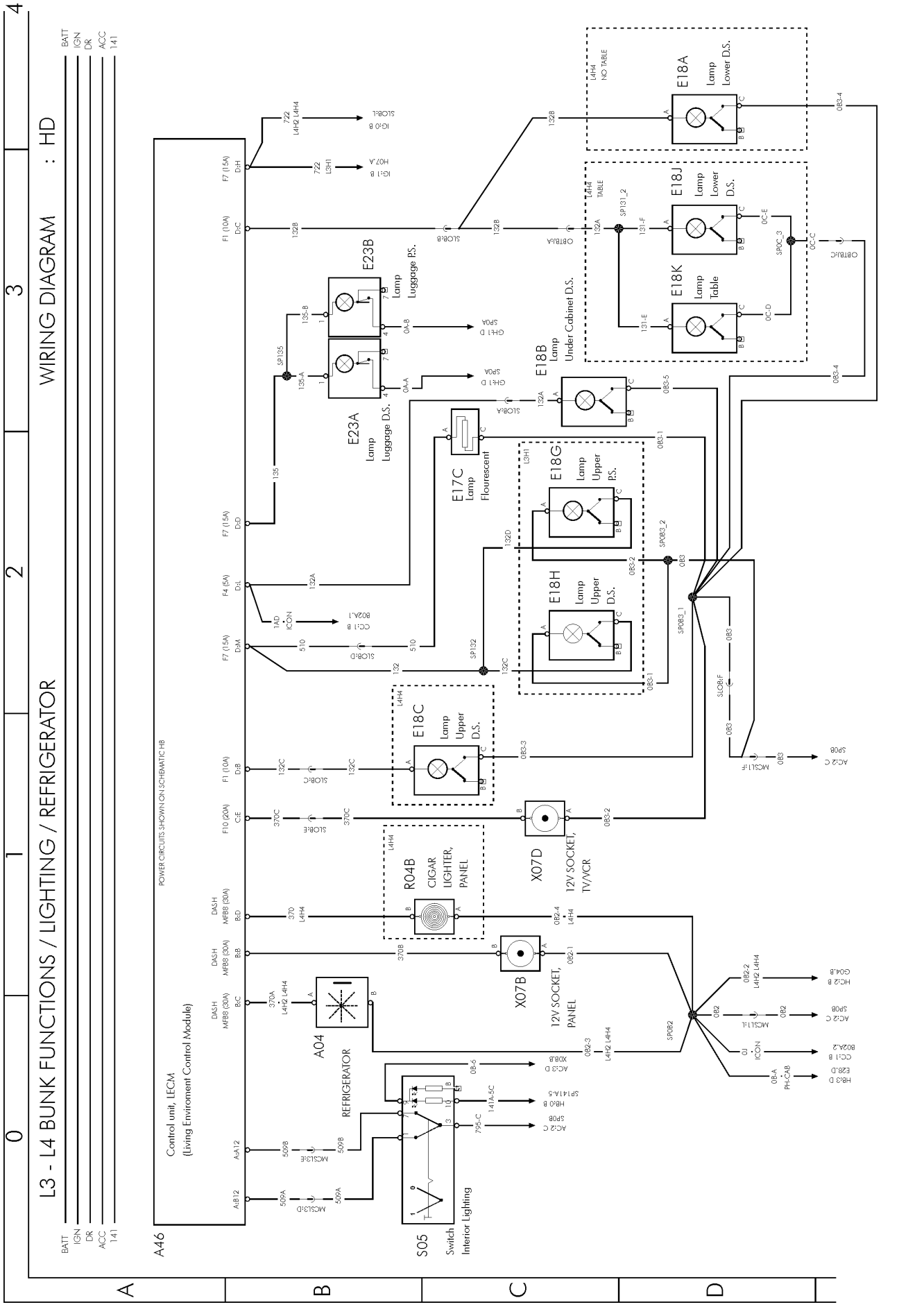

WIPER WASHER
WIRING DIAGRAM : GP
BATT
IGN
DR
ACC
141
F26
Wiper
25A
RLY12
RELAY, INTERMITTENT WIPER
S06
WINDSHIELD WIPER SWITCH
M01
WINDSHIELD WIPER MOTOR
M02A
WINDSHIELD WASHER PUMP, VN
M02B
WINDSHIELD WASHER PUMP, VHD
WASH
0
I
INT
H
SP00
SP0R-G
SP0M-A
SP0D
BASE-VN
CONSTRUC

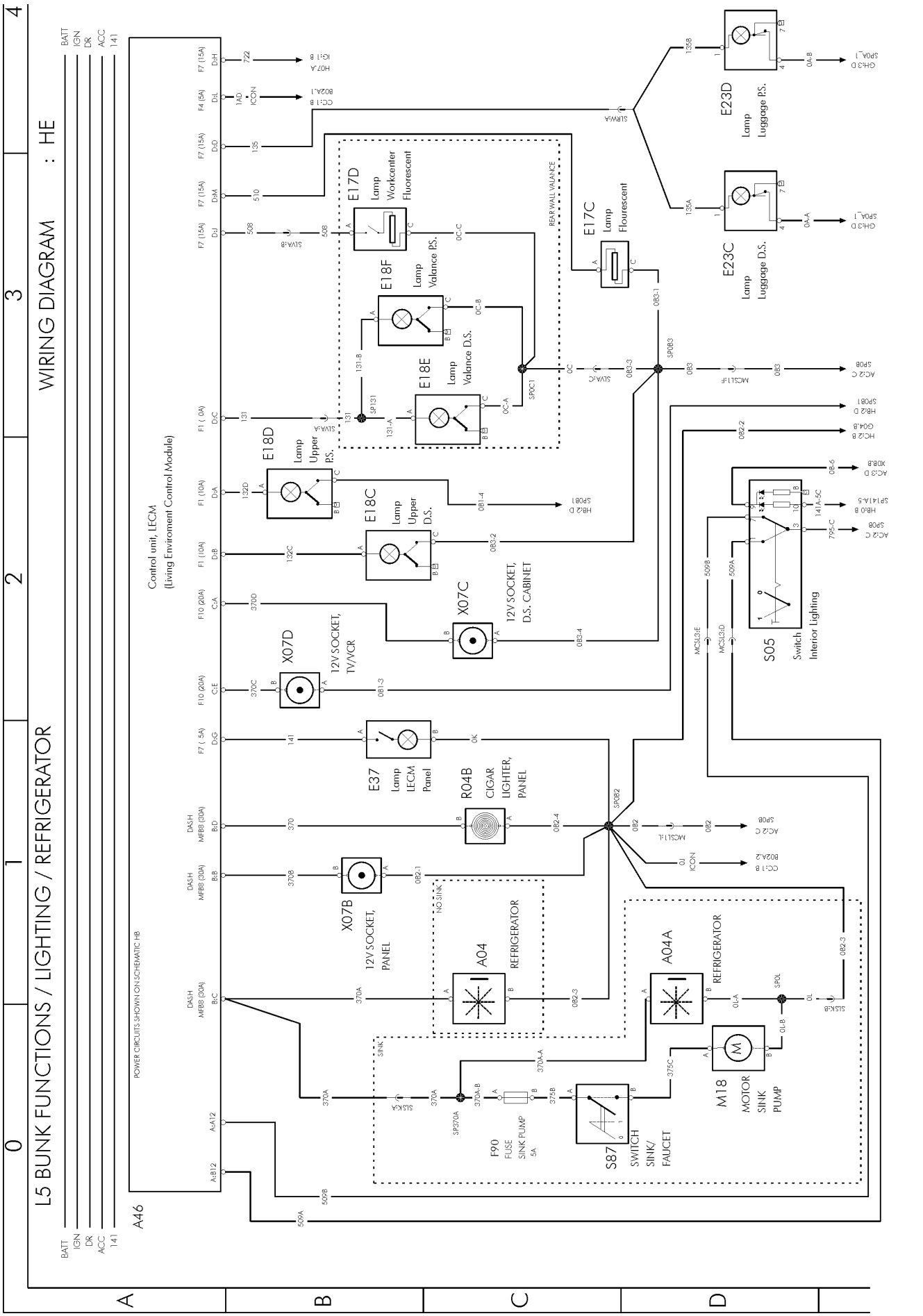

HORN
WIRING DIAGRAM : GQ
BATT
IGN
DR
ACC
141
F39
City Horn
10A
F47
Air Horn
10A
RLY10
RELAY, CITY HORN
Y53A
SOLENOID PACK, PRIMARY
S14A
Switch, City Horn/Air Horn
H02
Horn
FRCJF39_B
FRCJF47_B
FRCJR10_30
FRCJR10_85
FRCJR10_86
FRCJR10_87
MCFCJ9
MCFCJ12
MCFCJ10
FCSPJ3E
FCSPJ3F
FCSPJ3G
260
260-A
261
262
263
264
0M-E CONSTRUC
0M-E BASE-VN
GE1:D
SP0M:A
SP0H:C
AC12:D

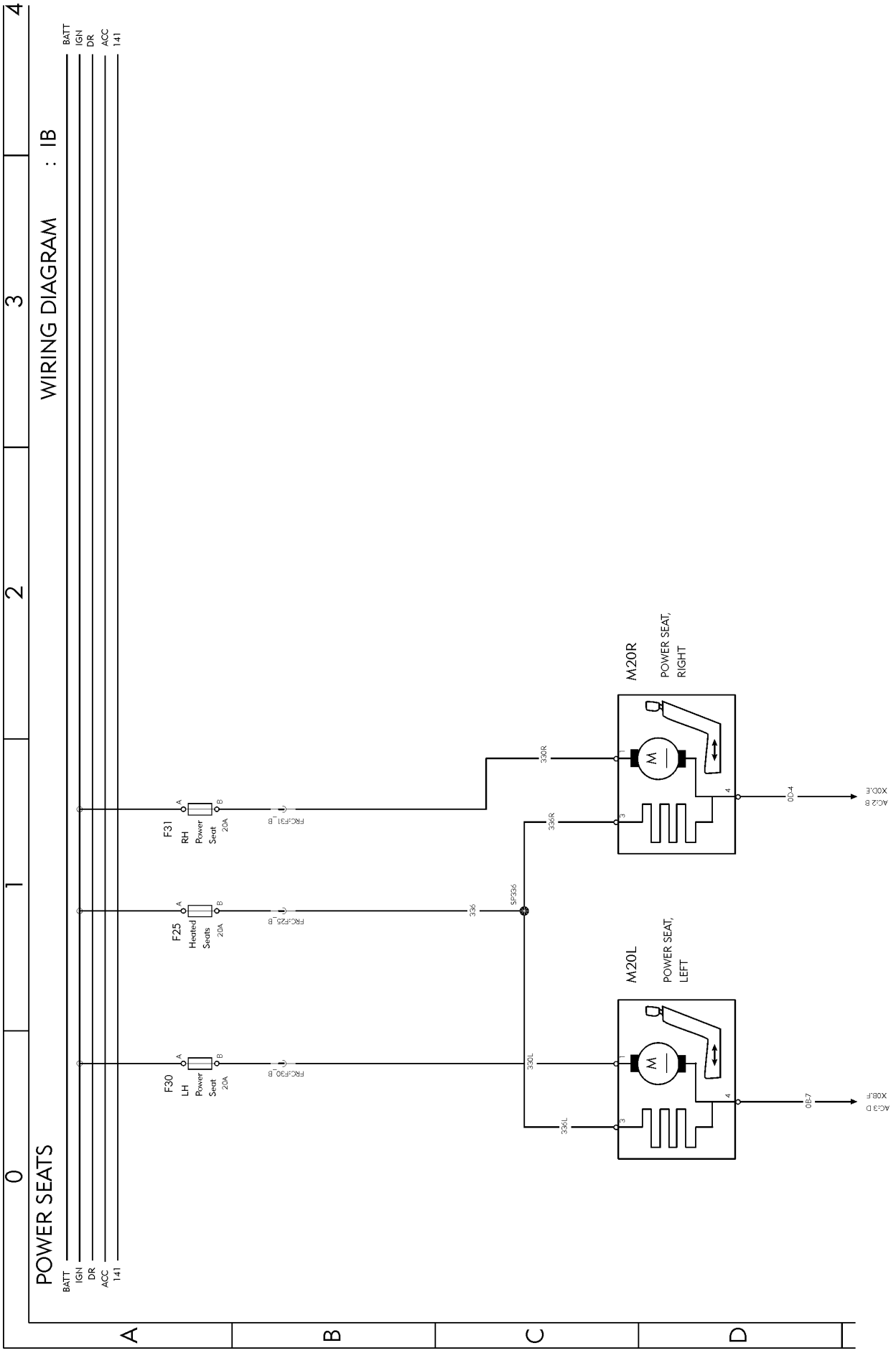

CLIMATE CONTROL
WIRING DIAGRAM : HA
BATT
IGN
DR
ACC
141
A34
Control unit, climate unit
E32A
HVAC UNIT
HEAT EXCHANGER
EVAPORATOR
RECIRCULATION
AIR DISTRIBUTION
BY-PASS
WATER CONTROL VALVE
BLOWER CONTROL
REFRIG. PRESSURE SENSOR
B59
Sensor, Indoor Temp.
Y42
Clutch, magnetic, air conditioning compressor
F53
Climate Control/ A/C Blower Batt
30A
F23
Climate Control Ign.
10A
SAE J1708/J1587
FAN CL
SPOTS
SPOP1
SP150
OTS-A
OTS-B
OPI-A
OPI-B
OPI-C
OPI
OTS
150
150-A
151
159
163
301
670
671
672
673
674
675
676
677
678
679
696
697
698
400-L
401-L
682A
141-A
695A
A17-A:24
BB:0 A
SP141A
GB:0 B
X40L
X401L
X4:1 B
X4:0 B
XG3
XG7
AC3 E
AD1 C
MCFC1:00
MCFC1:36
FCEN1:F
FRCHF53:B
FRCHF23:B
A
B
C
D
0
1
2
3
4

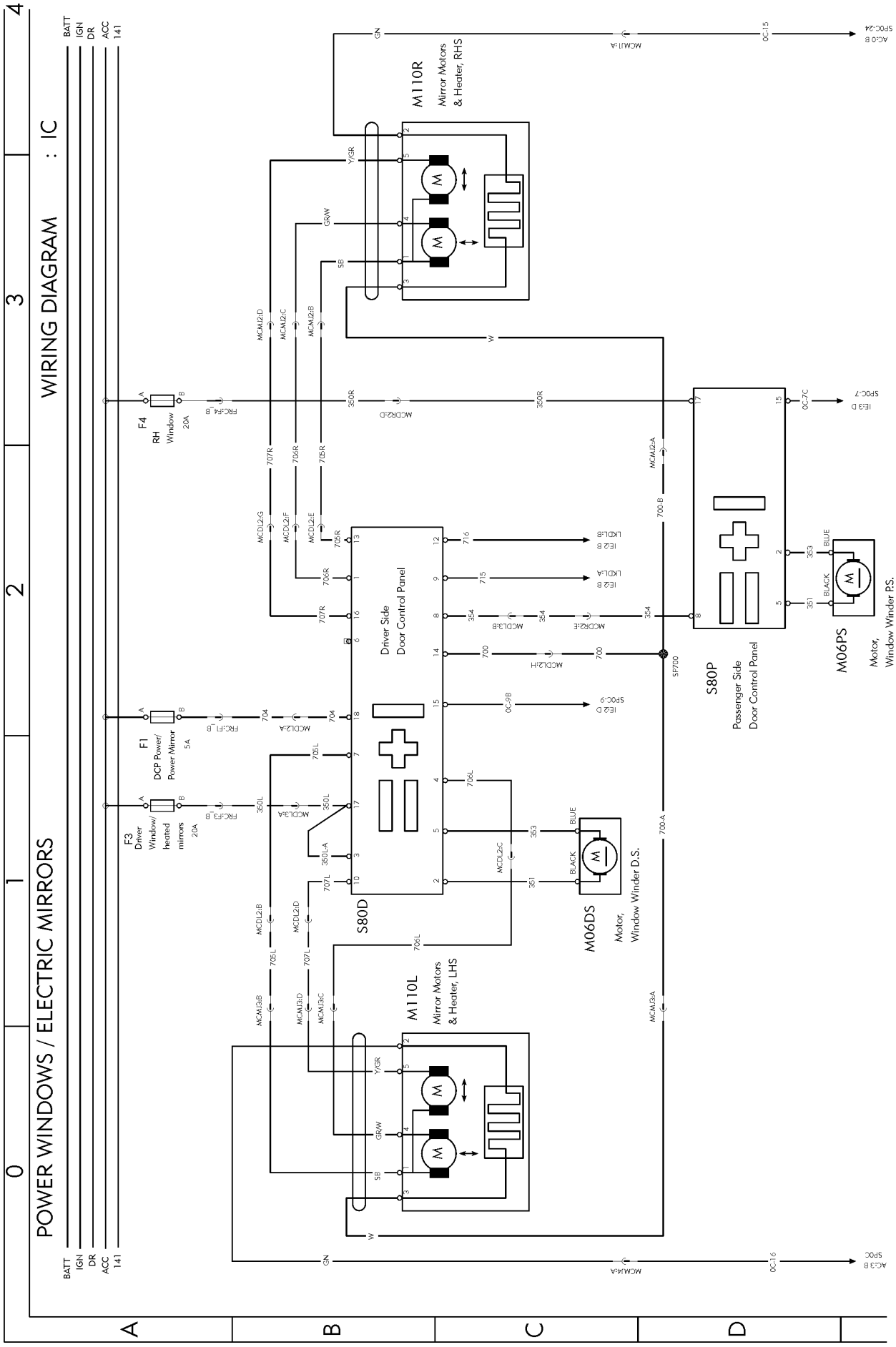

WIRING DIAGRAM : HB
CLIMATE CONTROL BUNK
BATT
IGN
DR
ACC
141
MFB8 BUNK FUNCTIONS 30A
MFB7 BUNK HVAC 30A
MFA2 Fuse F4 & F10 in LECM/ Body Builder 30A
MFB1 Fuse F1 & F7 in LECM 30A
F52 Battery Protection Status 5A
F20 Battery protection / Beacon LPS 10A/15A
A46
Control unit, LECM (Living Environment Control Module)
LECM F10 (20A)
RLY41 RELAY, PARK BRAKE
E28 PARKING HEATER
E32 HVAC UNIT
ACTUATOR
DTC
BLDC
RLY05_1 RELAY, BATTERY PROTECTION
S04 SWITCH, CLIMATE FAN SELECTOR TYPE

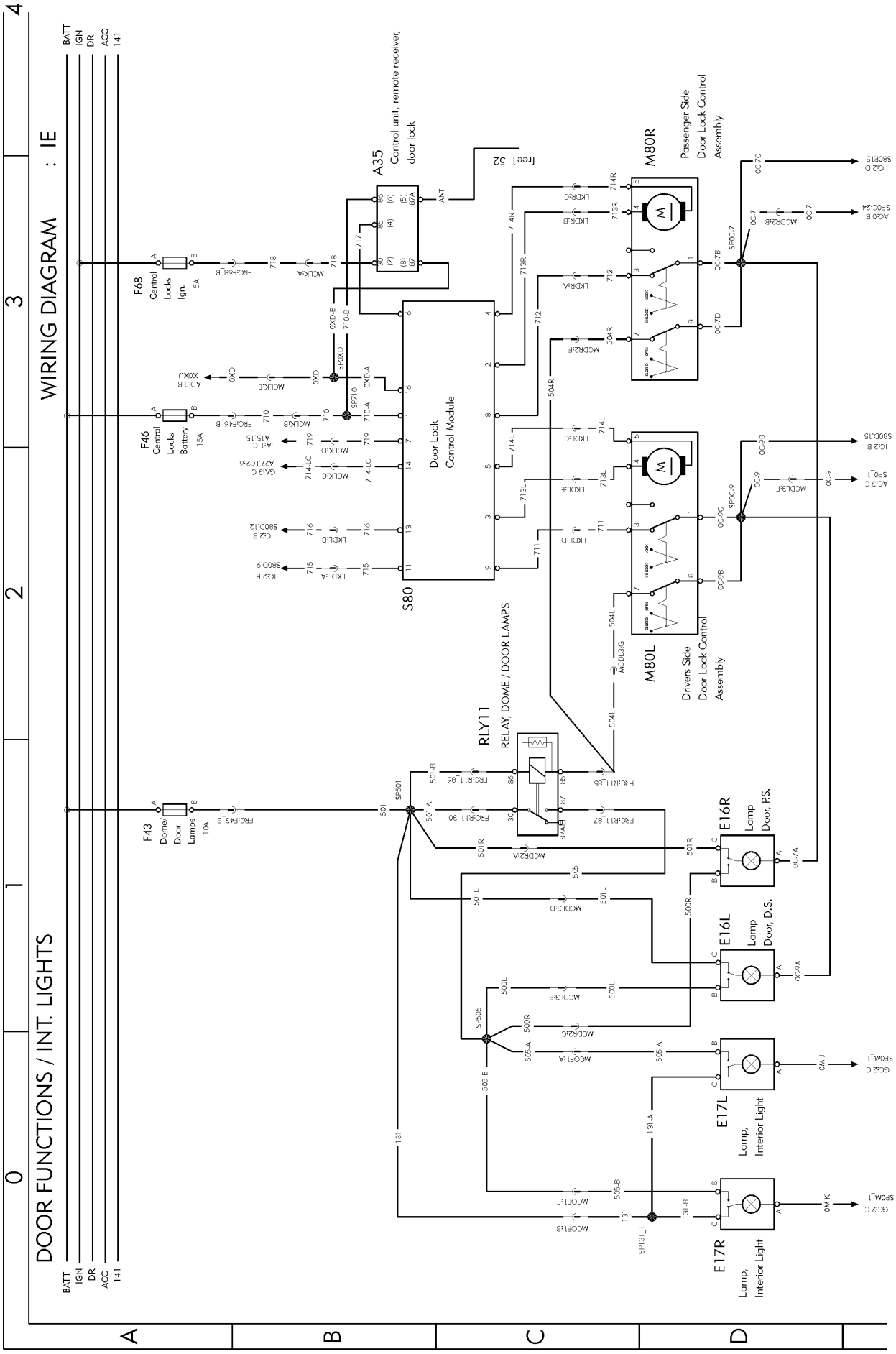

SHORE POWER / INVERTER
WIRING DIAGRAM : HC
BATT
IGN
DR
ACC
141
Power Distribution Unit, 120VAC
120V INPUT
120V OUTPUT
RECEPTACLE UNDER TABLE
RECEPTACLE P.S. CABINET
RECEPTACLE D.S. CABINET
PASSTHROUGH
WITHOUT INVERTER
WITH INVERTER
EXTERNAL RECEPTACLE
G04
G03
G01
Battery
Inverter, 12VDC - 120VAC
12V INPUT
REMOTE CONTROL
S92
Switch, Inverter remote

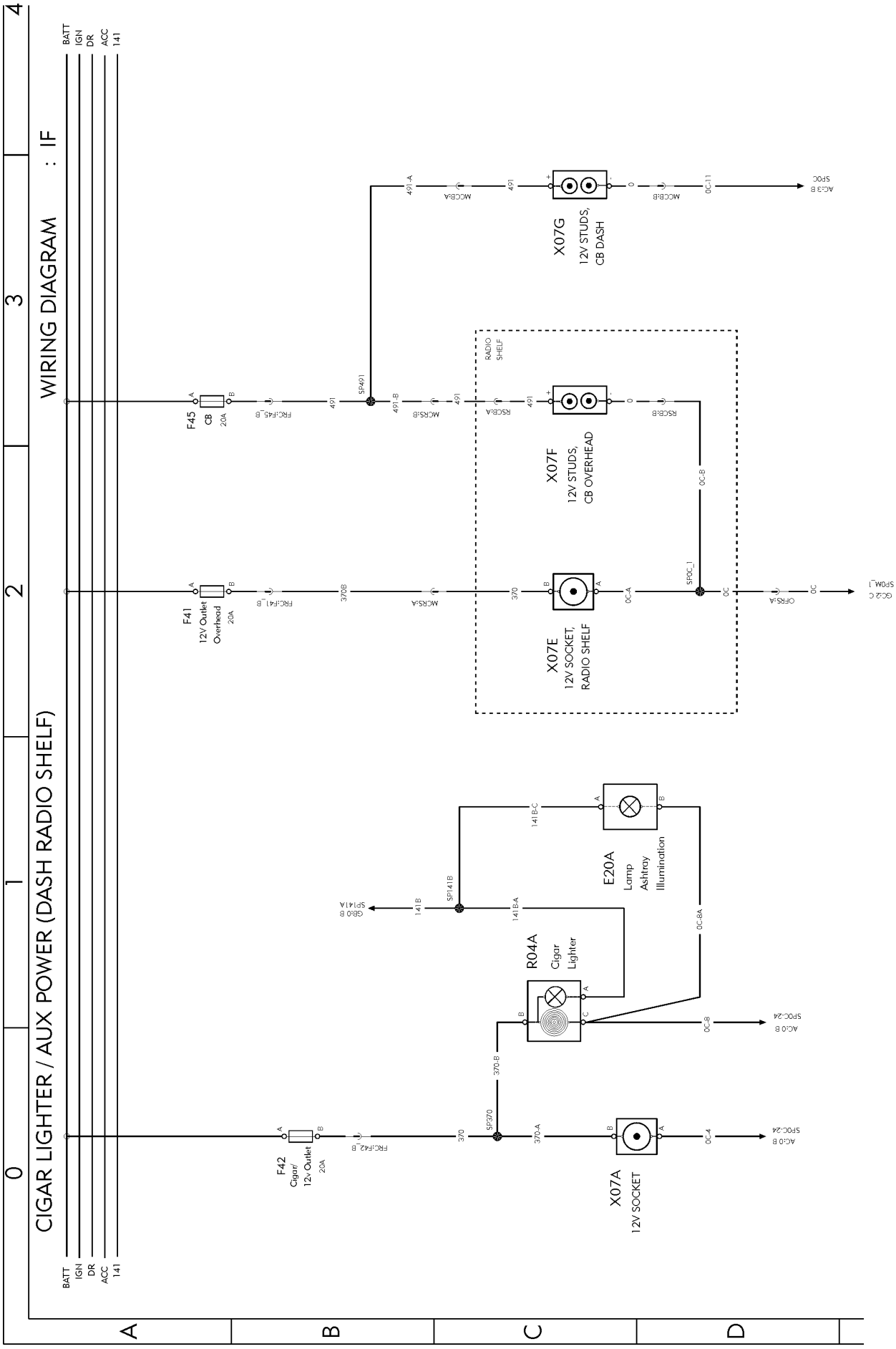

L3 - L4 BUNK FUNCTIONS / LIGHTING / REFRIGERATOR
WIRING DIAGRAM : HD
0
1
2
3
4
A
B
C
D
BATT
IGN
DR
ACC
141
A46
Control unit, LECM
(Living Environment Control Module)
POWER CIRCUITS SHOWN ON I-SCHEMATIC HB
S05
Switch
Interior Lighting
A04
REFRIGERATOR
X07B
12V SOCKET, PANEL
X07D
12V SOCKET, TV/VCR
R04B
CIGAR LIGHTER, PANEL
E17C
Lamp
Flourescent
E18A
Lamp
Lower D.S.
E18B
Lamp
Under Cabinet D.S.
E18C
Lamp
Upper D.S.
E18G
Lamp
Upper P.S.
E18H
Lamp
Upper D.S.
E18J
Lamp
Lower D.S.
E18K
Lamp
Table
E23A
Lamp
Luggage D.S.
E23B
Lamp
Luggage P.S.

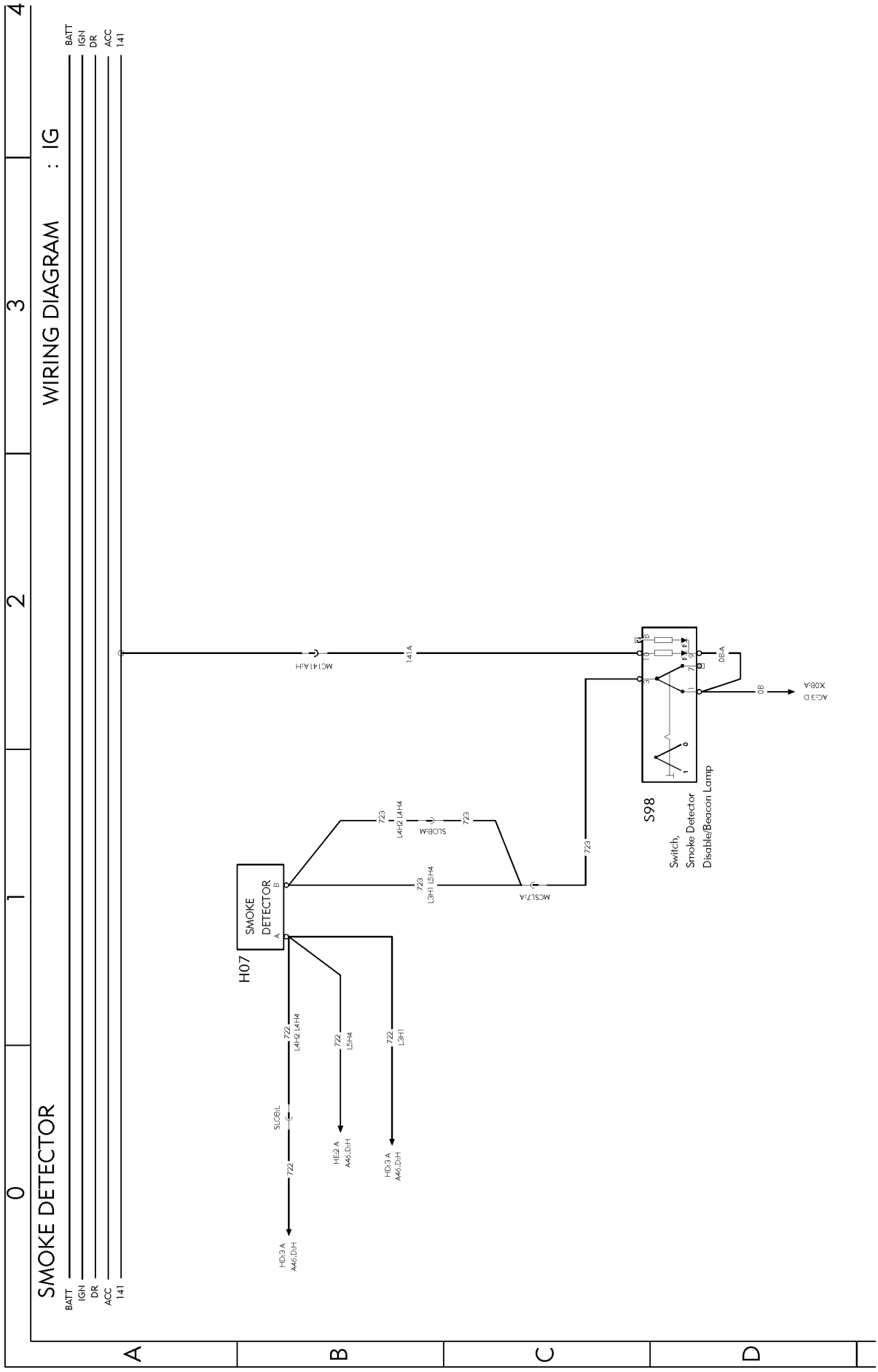

L5 BUNK FUNCTIONS / LIGHTING / REFRIGERATOR
WIRING DIAGRAM : HE
0
1
2
3
4
A
B
C
D
BATT
IGN
DR
ACC
141
A46
Control unit, LECM
(Living Enviroment Control Module)
POWER CIRCUITS SHOWN ON SCHEMATIC H8
E17D
Lamp
Workcenter
Fluorescent
E17C
Lamp
Flourescent
E18F
Lamp
Valance P.S.
E18E
Lamp
Valance D.S.
E18D
Lamp
Upper
P.S.
E18C
Lamp
Upper
D.S.
E23D
Lamp
Luggage P.S.
E23C
Lamp
Luggage D.S.
REAR WALL VALANCE
X07C
12V SOCKET,
D.S. CABINET
X07D
12V SOCKET,
TV/VCR
X07B
12V SOCKET,
PANEL
E37
Lamp
LECM
Panel
R04B
CIGAR
LIGHTER,
PANEL
A04
REFRIGERATOR
NO SINK
A04A
REFRIGERATOR
SINK
M18
MOTOR
SINK
PUMP
F90
FUSE
SINK PUMP
5A
S87
SWITCH
SINK/
FAUCET
S05
Switch
Interior Lighting

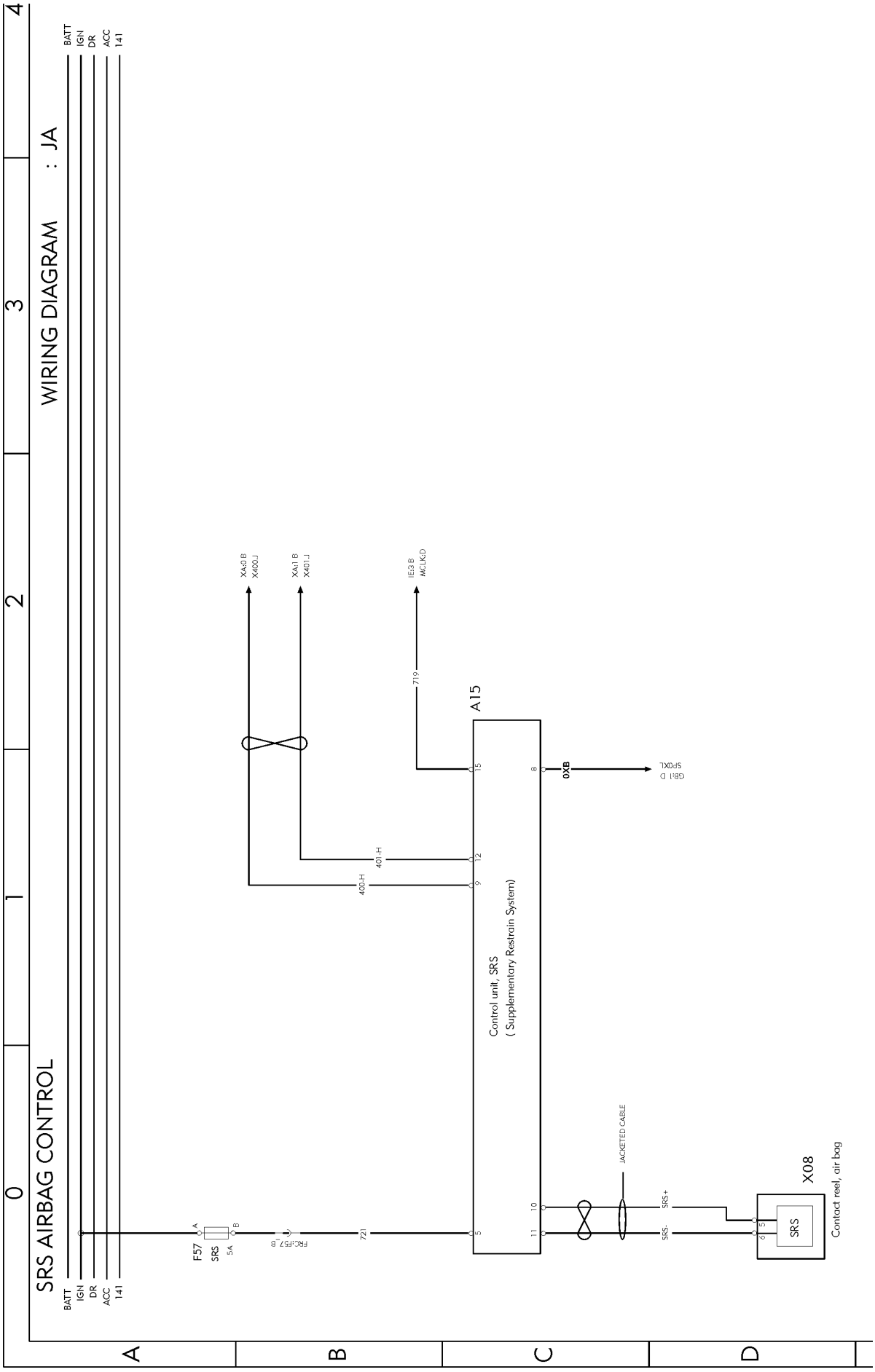

POWER SEATS
WIRING DIAGRAM : IB
BATT
IGN
DR
ACC
141
F31
RH Power Seat
20A
F25
Heated Seats
20A
F30
LH Power Seat
20A
M20R
POWER SEAT, RIGHT
M20L
POWER SEAT, LEFT
330R
336R
336
330L
336L
SP336
0D-4
0B-7

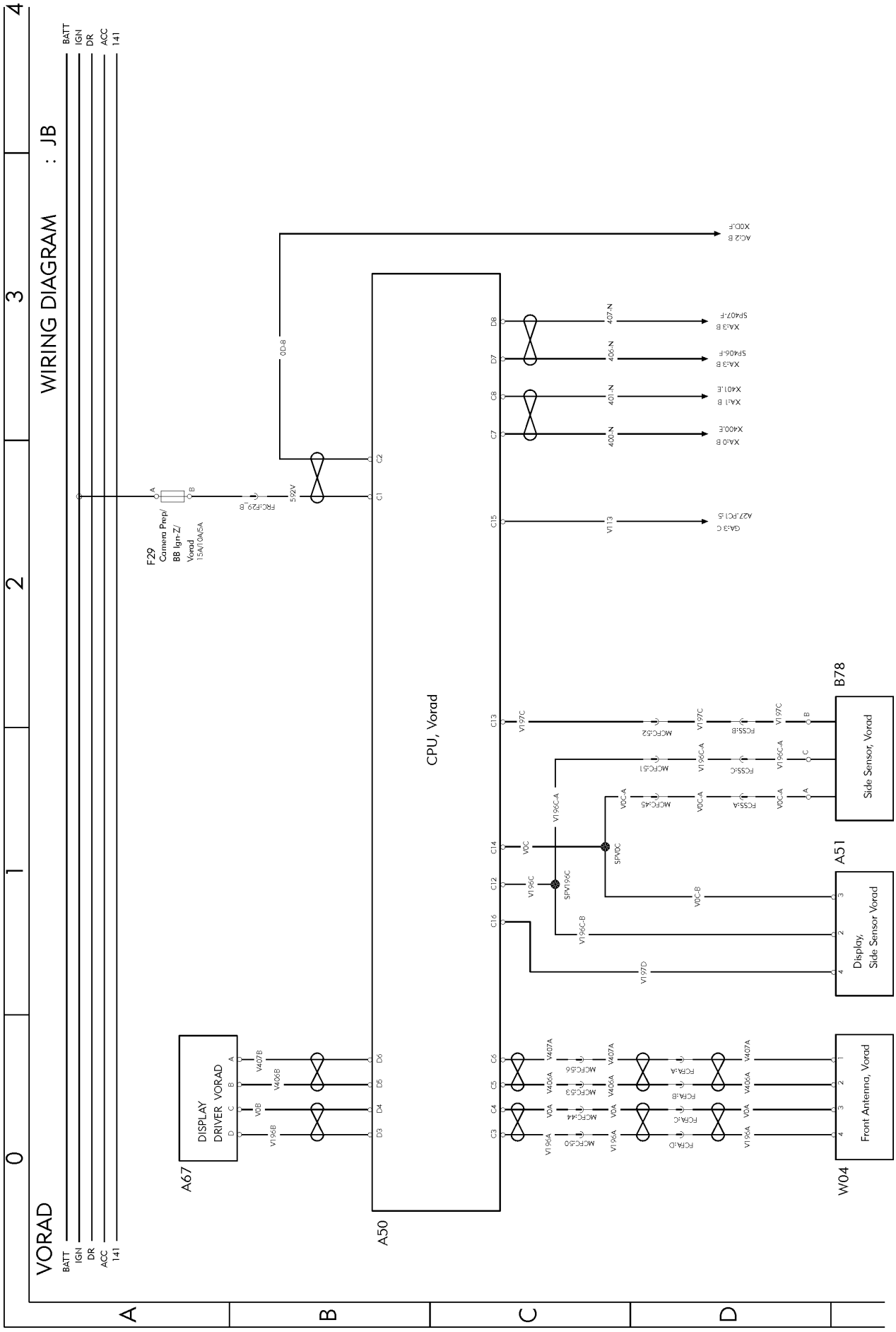

POWER WINDOWS / ELECTRIC MIRRORS
WIRING DIAGRAM : IC
BATT
IGN
DR
ACC
141
F1
DCP Power/
Power Mirror
5A
F3
Driver
Window/
heated
mirrors
20A
F4
RH
Window
20A
S80D
Driver Side
Door Control Panel
S80P
Passenger Side
Door Control Panel
M06DS
Motor,
Window Winder D.S.
M06PS
Motor,
Window Winder P.S.
M110L
Mirror Motors
& Heater, LHS
M110R
Mirror Motors
& Heater, RHS
SP700
BLACK
BLUE
GN
W
SB
GR/W
Y/GR

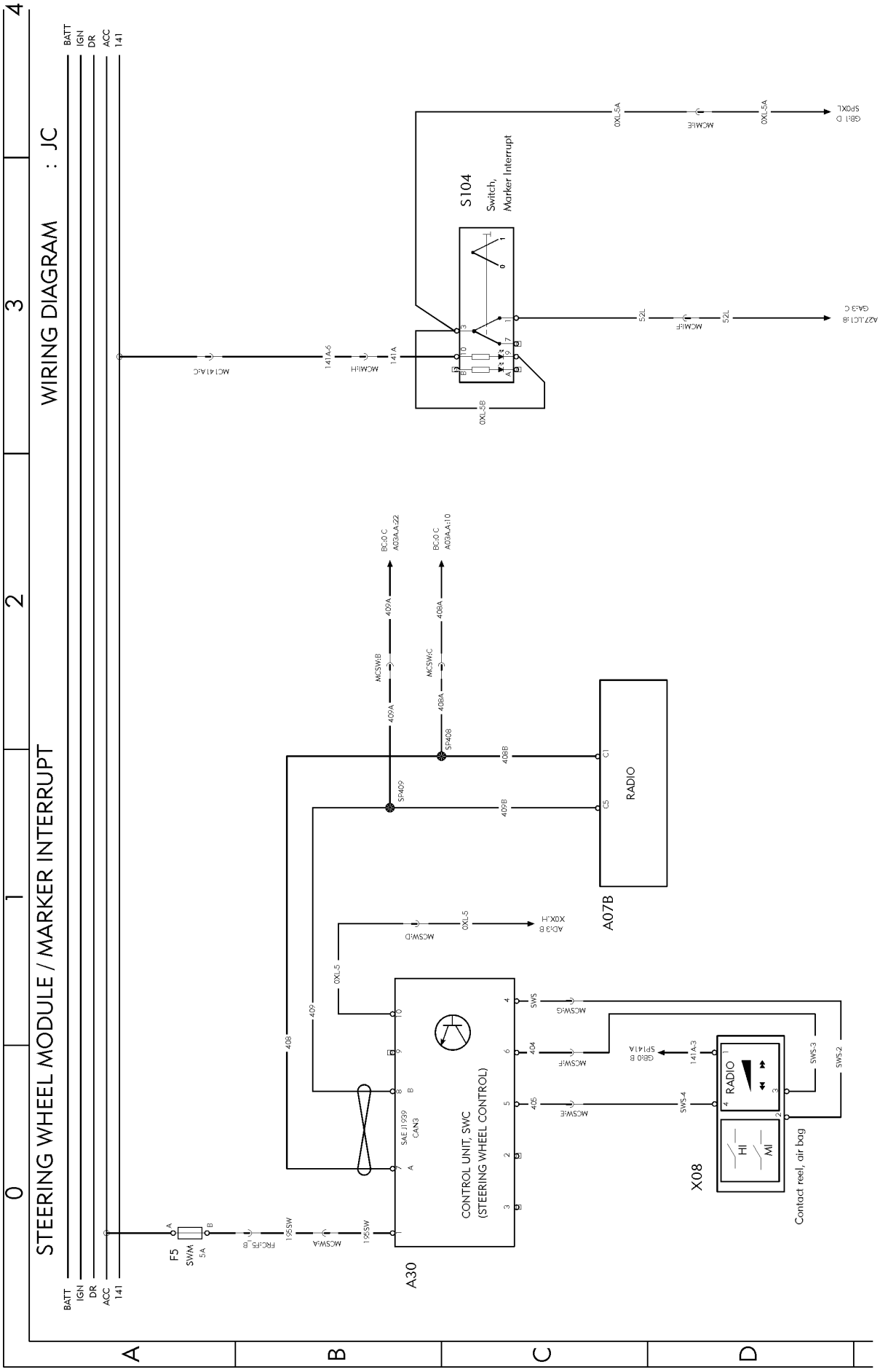

DOOR FUNCTIONS / INT. LIGHTS
WIRING DIAGRAM : IE
BATT
IGN
DR
ACC
141
F43
Dome/ Door Lamps
10A
F46
Central Locks Battery
15A
F68
Central Locks Ign.
5A
A35
Control unit, remote receiver, door lock
ANT
S80
Door Lock Control Module
RLY11
RELAY, DOME / DOOR LAMPS
M80L
Drivers Side Door Lock Control Assembly
M80R
Passenger Side Door Lock Control Assembly
E16R
Lamp Door, P.S.
E16L
Lamp Door, D.S.
E17L
Lamp, Interior Light
E17R
Lamp, Interior Light

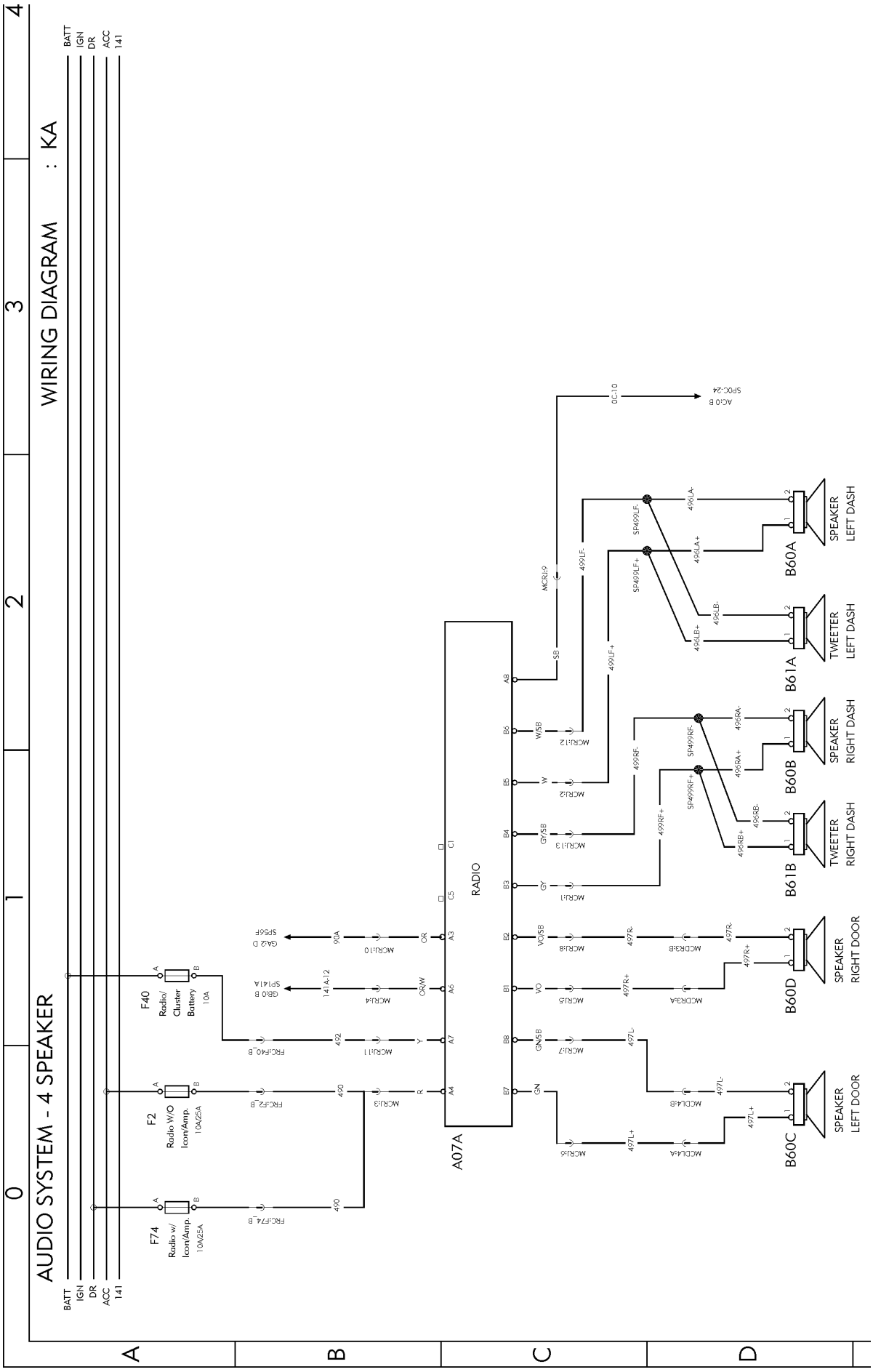

CIGAR LIGHTER / AUX POWER (DASH RADIO SHELF)
WIRING DIAGRAM : IF
BATT
IGN
DR
ACC
141
F45
CB
20A
F41
12V Outlet
Overhead
20A
F42
Cigar/
12V Outlet
20A
X07G
12V STUDS,
CB DASH
X07F
12V STUDS,
CB OVERHEAD
X07E
12V SOCKET,
RADIO SHELF
X07A
12V SOCKET
E20A
Lamp
Ashtray
Illumination
R04A
Cigar
Lighter
RADIO
SHELF
SP491
SP370
SP141B
SPOC_1
491
491-A
491-B
370
370-A
370-B
141B
141B-A
141B-C
0C
0C-A
0C-B
0C-11
0C-4
0C-8A
0C-24
MCCB:A
MCCB:B
MCRS:A
MCRS:B
RSCB:A
RSCB:B
FRC:F45_B
FRC:F41_B
FRC:F42_B
OFRS:A
370B
AC:3 B
AC:10 B
GB:10 B
SPOC
SPOC-24
SP141A
SP0M_1
GC:2 C

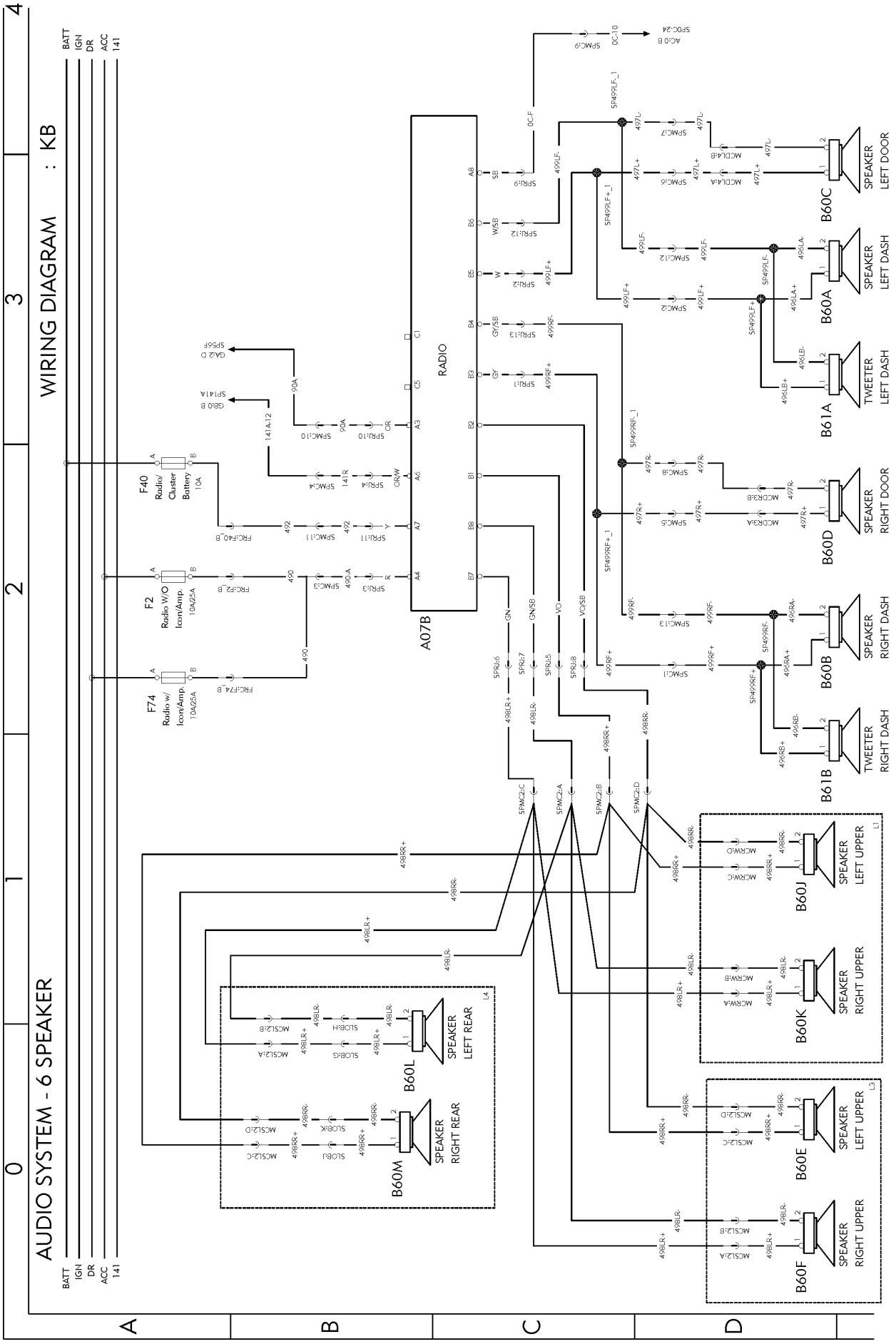

SMOKE DETECTOR
WIRING DIAGRAM : IG
BATT
IGN
DR
ACC
141
H07
SMOKE DETECTOR
S98
Switch, Smoke Detector Disable/Beacon Lamp
MC141A:H
141A
SLOB4M
MCSLZ:A
SLOB6L
HE2 A A46,D:H
HD3 A A46,D:H
HD3 A A46,D:H
AC3 D X08:A
0B
0E-A
723
722
L4H2 L4H4
L5H4
L3H1
L3H1 L5H4

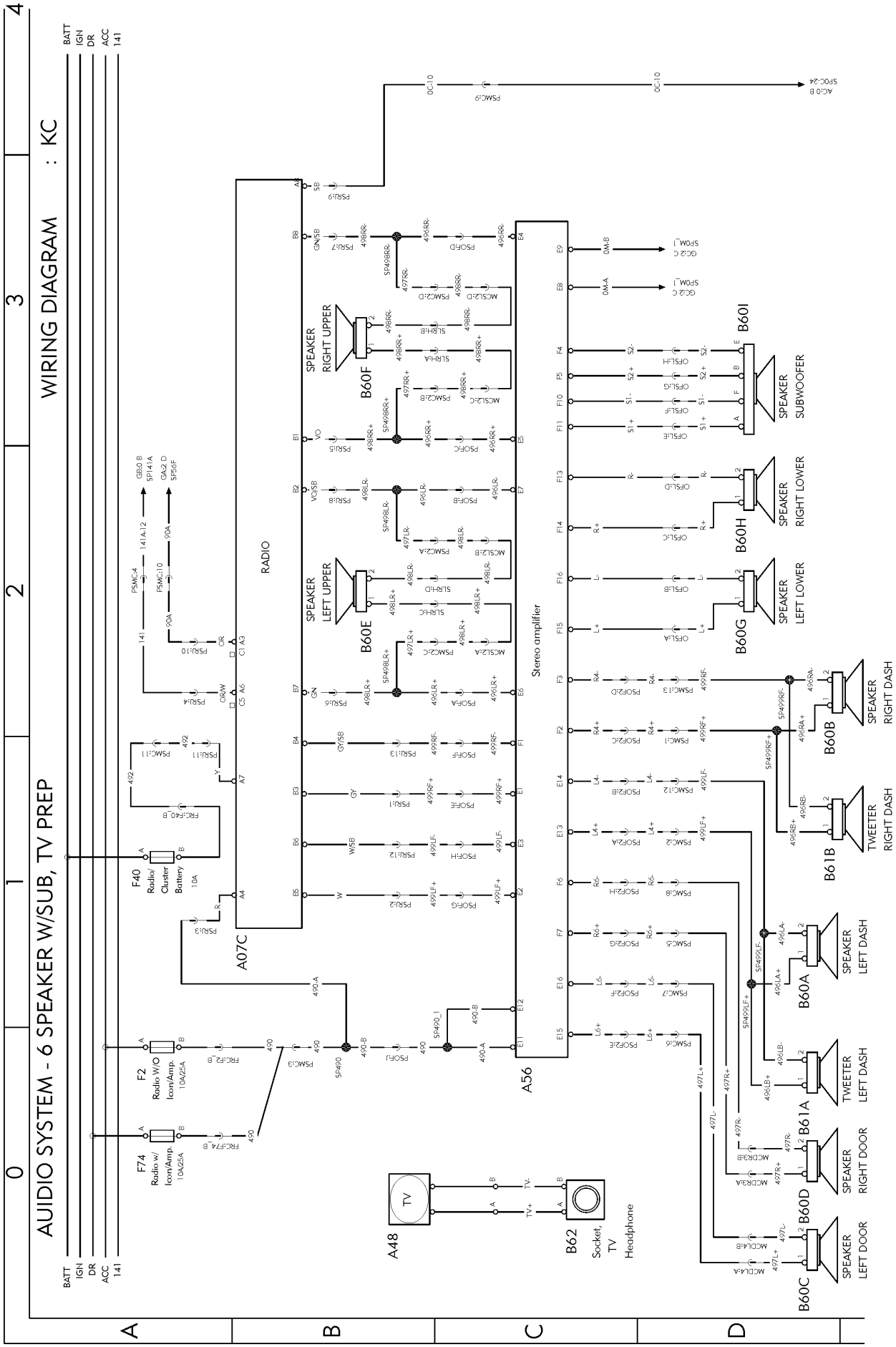

SRS AIRBAG CONTROL
WIRING DIAGRAM : JA
BATT
IGN
DR
ACC
141
F57
SRS
5A
FRC F57
721
A15
Control unit, SRS
(Supplementary Restrain System)
XA0.0 B
X400.J
XA0.1 B
X401.J
IE3.8
MCLK.D
719
400-H
401-H
0XB
SPDXL
JACKETED CABLE
SRS+
SRS-
X08
SRS
Contact reel, air bag

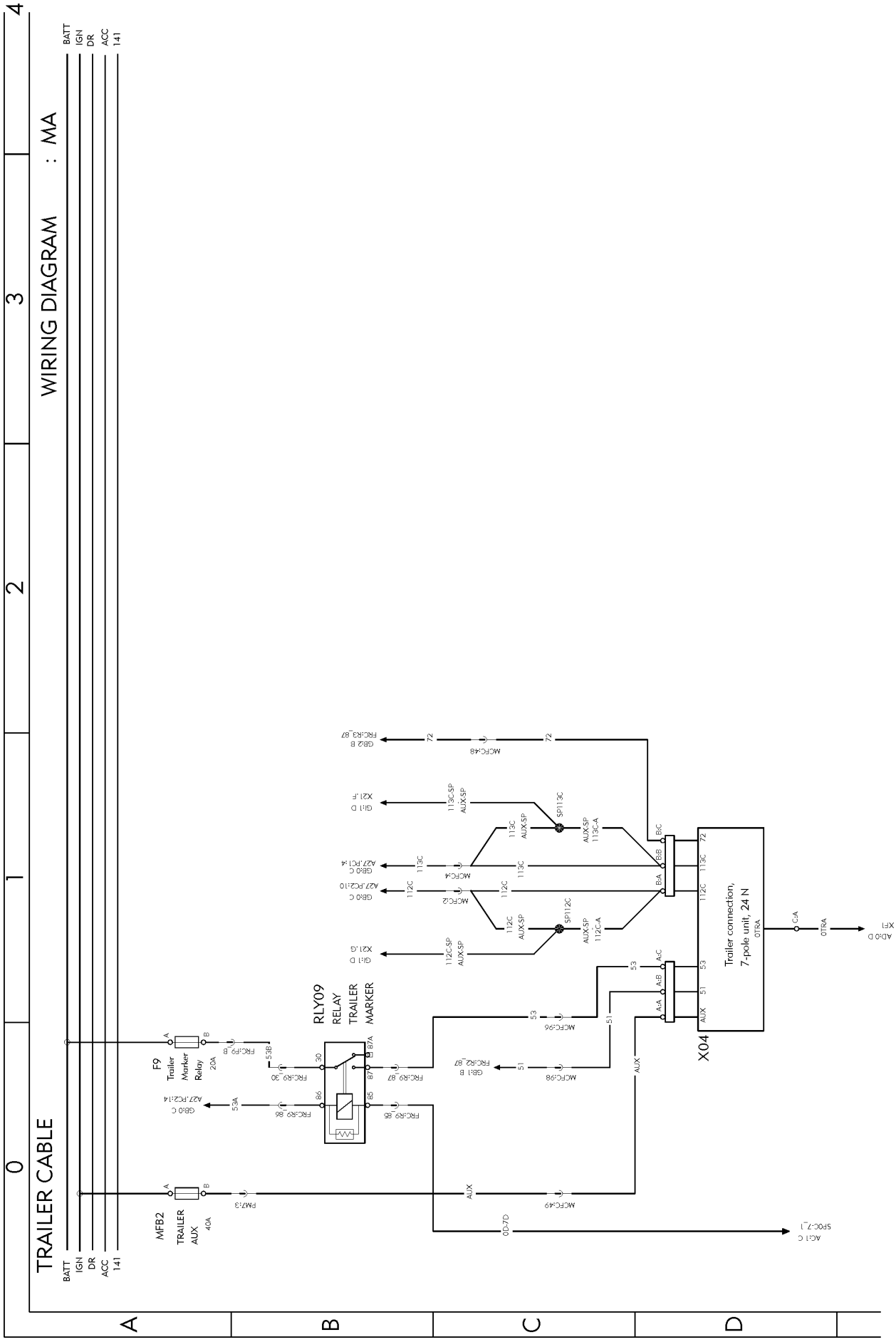

VORAD
WIRING DIAGRAM : JB
BATT
IGN
DR
ACC
141
F29
Camera Prep/
BB Ign-Z/
Vorad
15A/10A/5A
5/22V
A50
CPU, Vorad
A67
DISPLAY
DRIVER VORAD
A51
Display,
Side Sensor Vorad
B78
Side Sensor, Vorad
W04
Front Antenna, Vorad

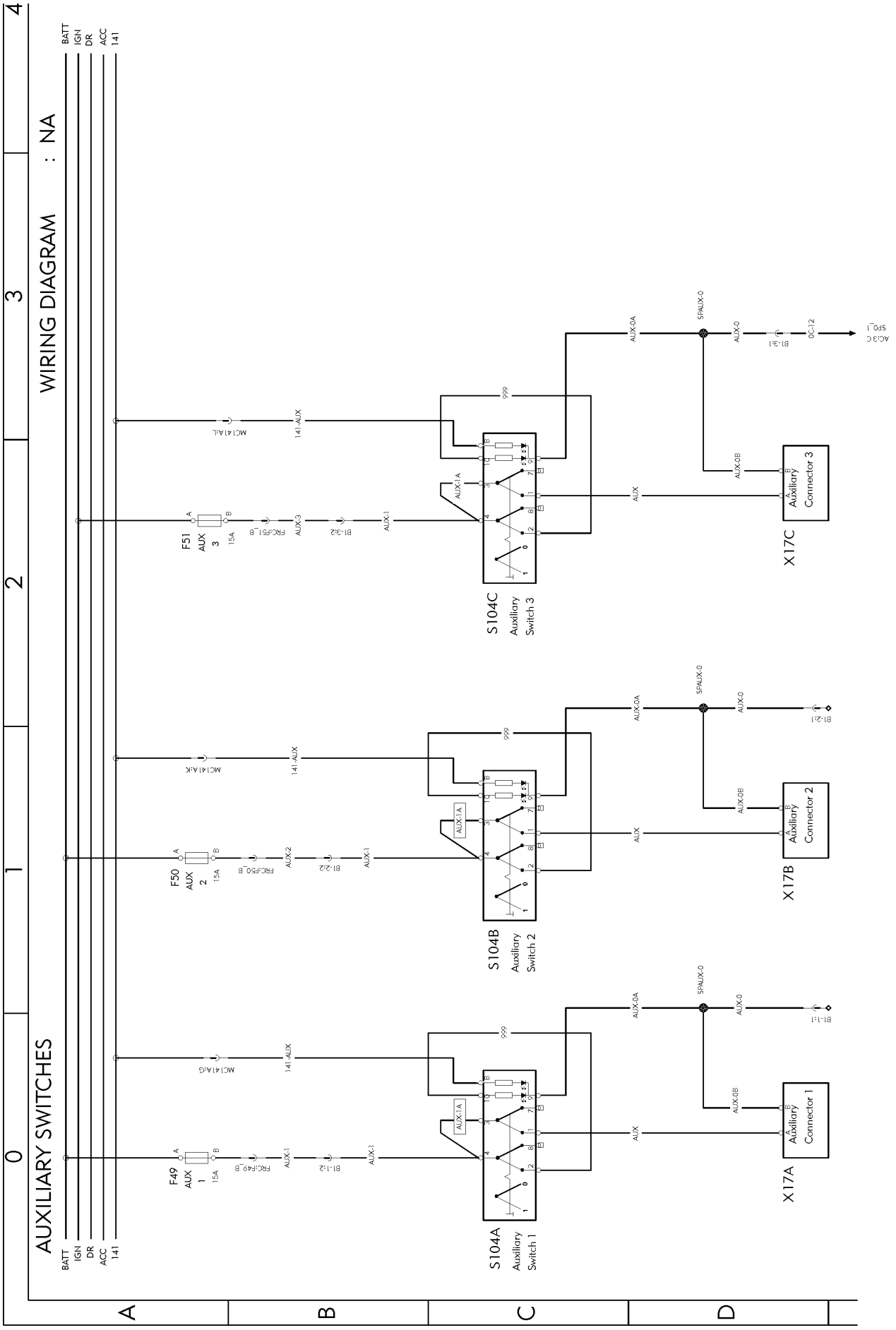

STEERING WHEEL MODULE / MARKER INTERRUPT
WIRING DIAGRAM : JC
BATT
IGN
DR
ACC
141
S104
Switch,
Marker Interrupt
A30
CONTROL UNIT, SWC
(STEERING WHEEL CONTROL)
SAE J1939
CAN3
A07B
RADIO
X08
Contact reel, air bag
F5
SWM
5A
0XL-5
0XL-5A
0XL-5B
52L
409
408
409A
408A
408B
409B
404
405
SWS
SWS-2
SWS-3
SWS-4
141A-3
141A-5
141A
MCSW:A
MCSW:B
MCSW:C
MCSW:D
MCSW:E
MCSW:F
MCSW:G
MC141:C
MCMI:H
MCMI:F
MCMI:E
SP409
SP408
SP414A
FRCFPS_B
195SW
A
B
C
D
0
1
2
3
4

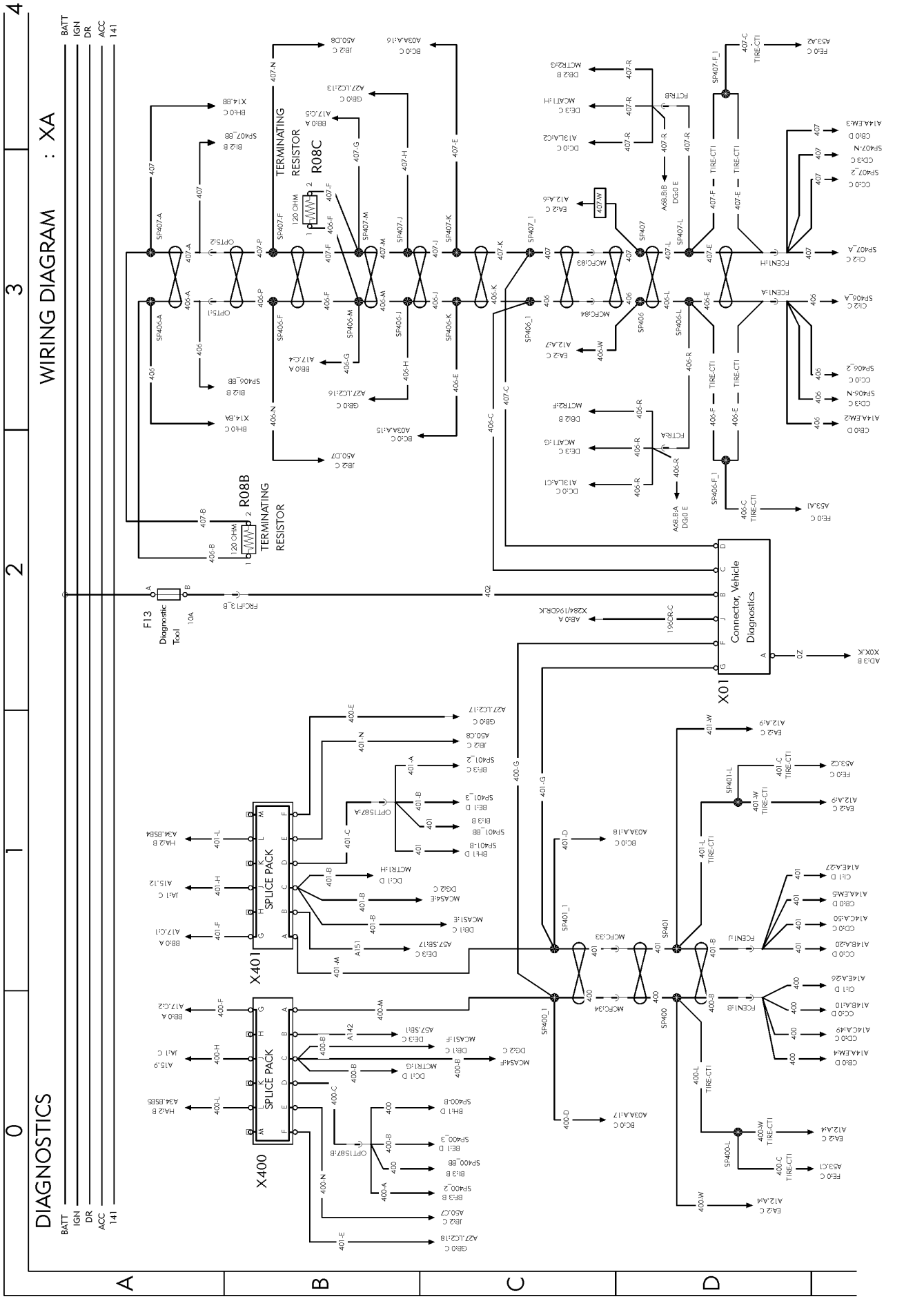

AUDIO SYSTEM - 4 SPEAKER
WIRING DIAGRAM : KA
BATT
IGN
DR
ACC
141
F74
Radio w/ Icon/Amp.
10A/25A
F2
Radio W/O Icon/Amp.
10A/25A
F40
Radio/ Cluster Battery
10A
A07A
RADIO
B60C
SPEAKER LEFT DOOR
B60D
SPEAKER RIGHT DOOR
B61B
TWEETER RIGHT DASH
B60B
SPEAKER RIGHT DASH
B61A
TWEETER LEFT DASH
B60A
SPEAKER LEFT DASH
SP499LF
SP499LF+
SP499RF-
SP499RF+
MCRJ:1
MCRJ:2
MCRJ:3
MCRJ:4
MCRJ:5
MCRJ:6
MCRJ:7
MCRJ:8
MCRJ:9
MCRJ:10
MCDR3A
MCDR3B
MCDL4A
MCDL4B
FRC:F74_B
FRC:F2_B
FRC:F40_B
A
B
C
D
0
1
2
3
4


AUDIO SYSTEM - 6 SPEAKER
WIRING DIAGRAM : KB
BATT
IGN
DR
ACC
141
A07B
RADIO
F40 Radio/ Cluster Battery 10A
F2 Radio W/O Icon/Amp. 10A/25A
F74 Radio w/ Icon/Amp. 10A/25A
B60A SPEAKER LEFT DASH
B60B SPEAKER RIGHT DASH
B60C SPEAKER LEFT DOOR
B60D SPEAKER RIGHT DOOR
B61A TWEETER LEFT DASH
B61B TWEETER RIGHT DASH
B60J SPEAKER LEFT UPPER
B60K SPEAKER RIGHT UPPER
B60E SPEAKER LEFT UPPER
B60F SPEAKER RIGHT UPPER
B60L SPEAKER LEFT REAR
B60M SPEAKER RIGHT REAR


AUDIO SYSTEM - 6 SPEAKER W/SUB, TV PREP
WIRING DIAGRAM : KC
BATT
IGN
DR
ACC
141
RADIO
A07C
Stereo amplifier
A56
F40 Radio/ Cluster Battery 10A
F2 Radio W/O Icon/Amp. 10A/25A
F74 Radio w/ Icon/Amp. 10A/25A
SPEAKER RIGHT UPPER
B60F
SPEAKER LEFT UPPER
B60E
SPEAKER LEFT LOWER
B60G
SPEAKER RIGHT LOWER
B60H
SPEAKER SUBWOOFER
B60I
SPEAKER RIGHT DASH
B60B
TWEETER RIGHT DASH
B61B
SPEAKER LEFT DASH
B60A
TWEETER LEFT DASH
B61A
SPEAKER RIGHT DOOR
B60D
SPEAKER LEFT DOOR
B60C
A48 TV
B62 Socket, TV Headphone


WIRING DIAGRAM : MA
TRAILER CABLE
BATT
IGN
DR
ACC
141
MFB2
TRAILER
AUX
40A
F9
Trailer
Marker
Relay
20A
RLY09
RELAY
TRAILER
MARKER
X04
Trailer connection,
7-pole unit, 24 N
AUX
SP113C
SP112C
AUX-SP
113C-SP
112C-SP
113C-A
112C-A
MCFC48
MCFC4
MCFC2
MCFC96
MCFC98
MCFC49
FRC:R3_87
FRC:R9_87
FRC:R9_30
FRC:R9_86
FRC:R9_85
PM7:3
0D7D
XF1
SPOC:7_1


AUXILIARY SWITCHES
WIRING DIAGRAM : NA
0
1
2
3
4
A
B
C
D
BATT
IGN
DR
ACC
141
F49
AUX 1
15A
F50
AUX 2
15A
F51
AUX 3
15A
S104A
Auxiliary Switch 1
S104B
Auxiliary Switch 2
S104C
Auxiliary Switch 3
X17A
Auxiliary Connector 1
X17B
Auxiliary Connector 2
X17C
Auxiliary Connector 3
141-AUX
AUX-1
AUX-2
AUX-3
AUX-1A
AUX
AUX-0A
AUX-0B
AUX-0
SPAUX-0
999


DIAGNOSTICS
WIRING DIAGRAM : XA
BATT
IGN
DR
ACC
141
TERMINATING RESISTOR
R08C
120 OHM
R08B
TERMINATING RESISTOR
120 OHM
F13
Diagnostic Tool
10A
X01
Connector, Vehicle Diagnostics
X401
SPLICE PACK
X400
SPLICE PACK

Illustrations

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	Dash Switches, VHD	page 80
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	Dash Harness, Road Relay	page 82
	Dash Harness, Qualcomm	page 83
	Dash Harness, Snowplow Lights	page 84
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	Rear Cab Harness, Back of Cab Lights (LDI/LDO)	page 97
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	Rear Cab Harness, Fifth Wheel Light	page 99
	Rear Cab Harness, Fifth Wheel Light and Speakers (Daycab)	page 100
	Rear Cab Harness, Dual Fifth Wheel Light and Rear Speakers (Daycab)	page 101
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	Engine, Cummins ISX	page 121
Transmission		
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Chassis		
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	Washer Fill	page 131
	Horn	page 132
	Fuel Sensor	page 133
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	Pyrometer Sensor	page 137
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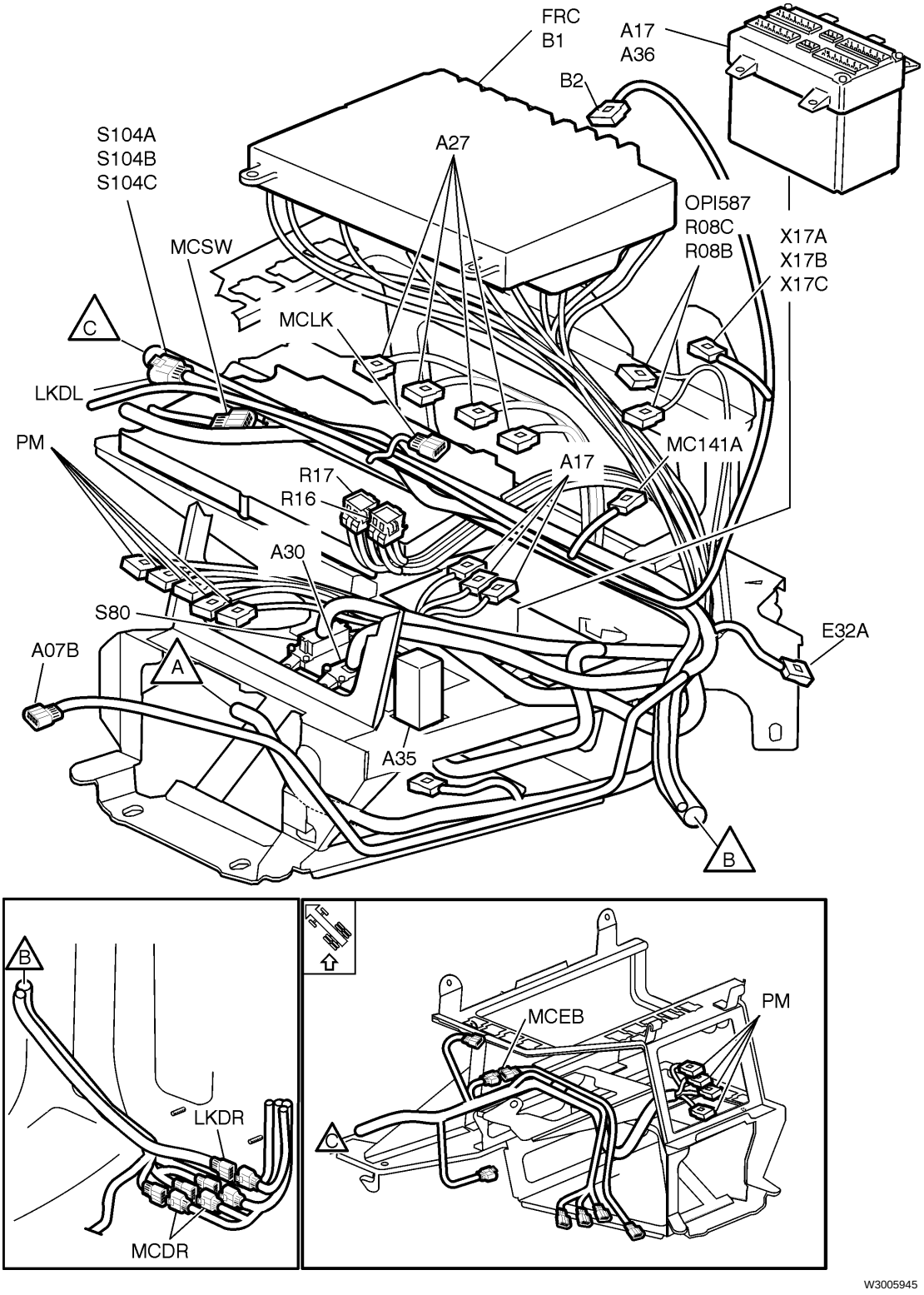
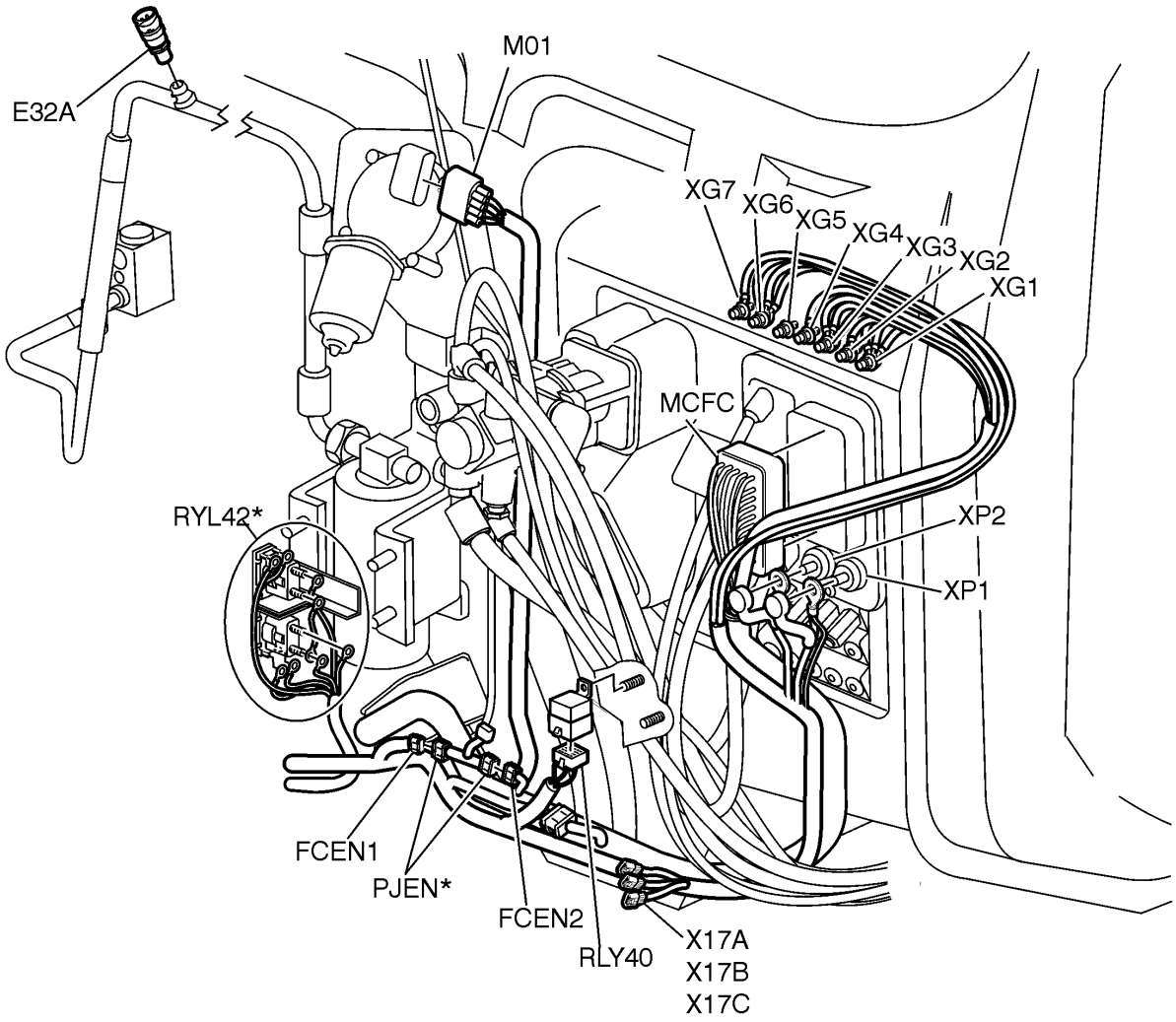
Fuse and Relay Center, Main Cab Harness (including Bodybuilder Module)



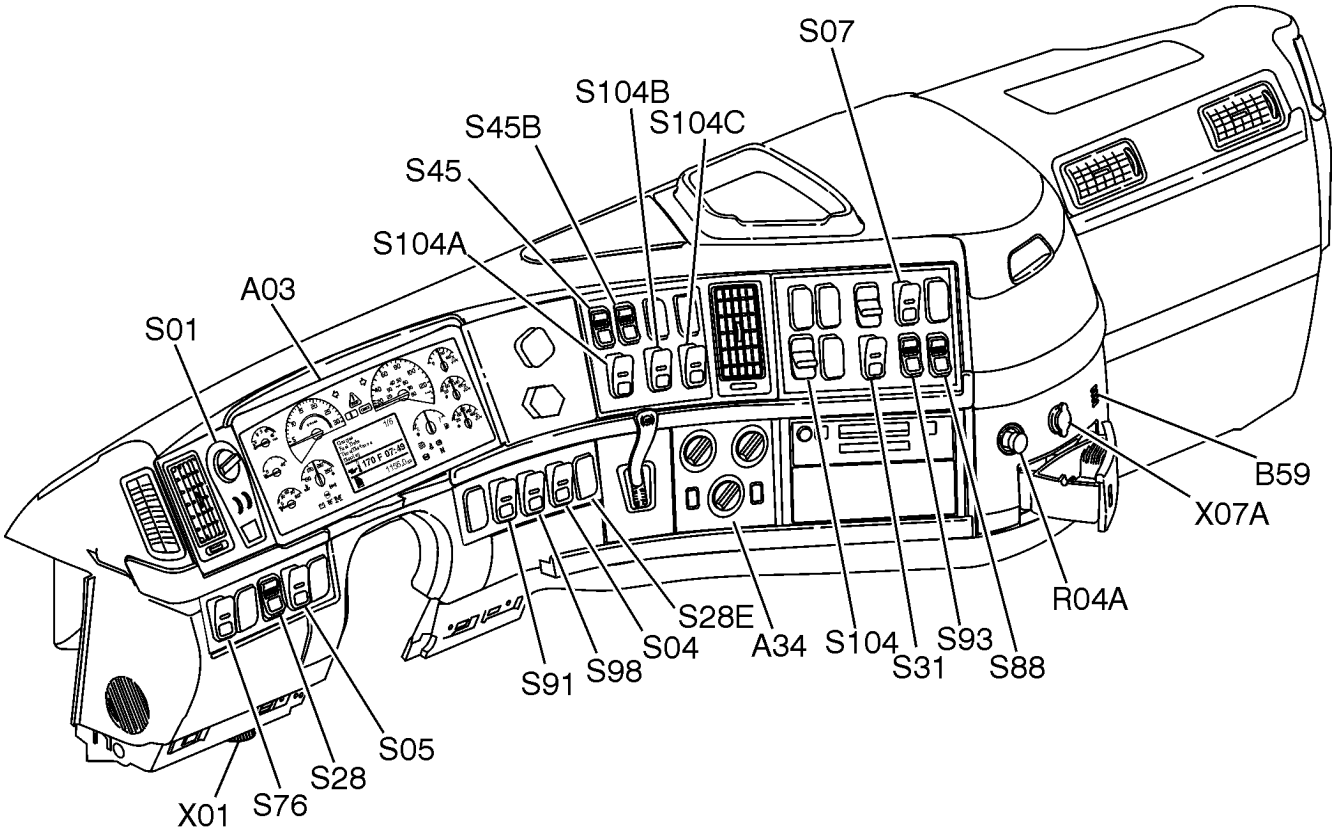
Cab Wiring Passthrough



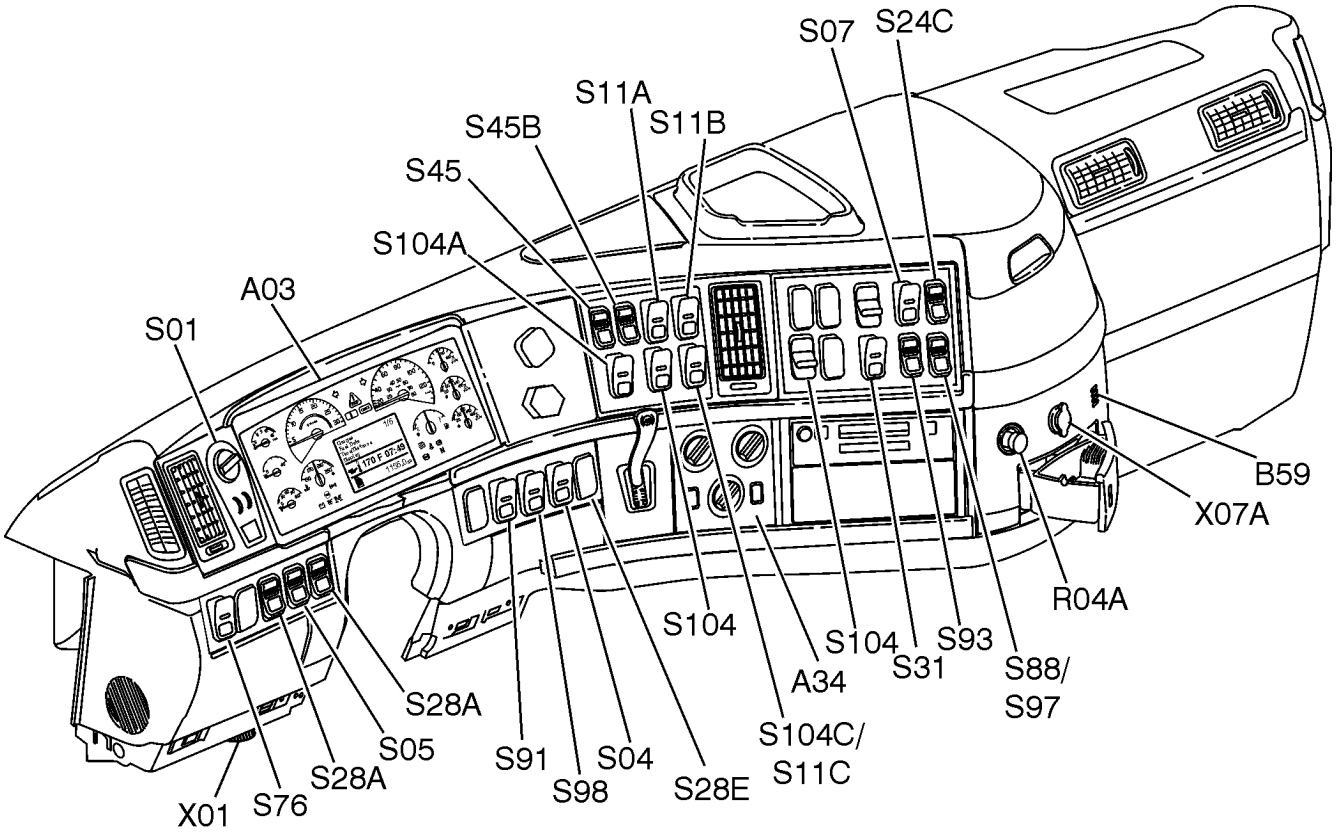
*NOTE: PJEN & RLY42 ARE ONLY USED WITH VOLVO ENGINES

W3005927

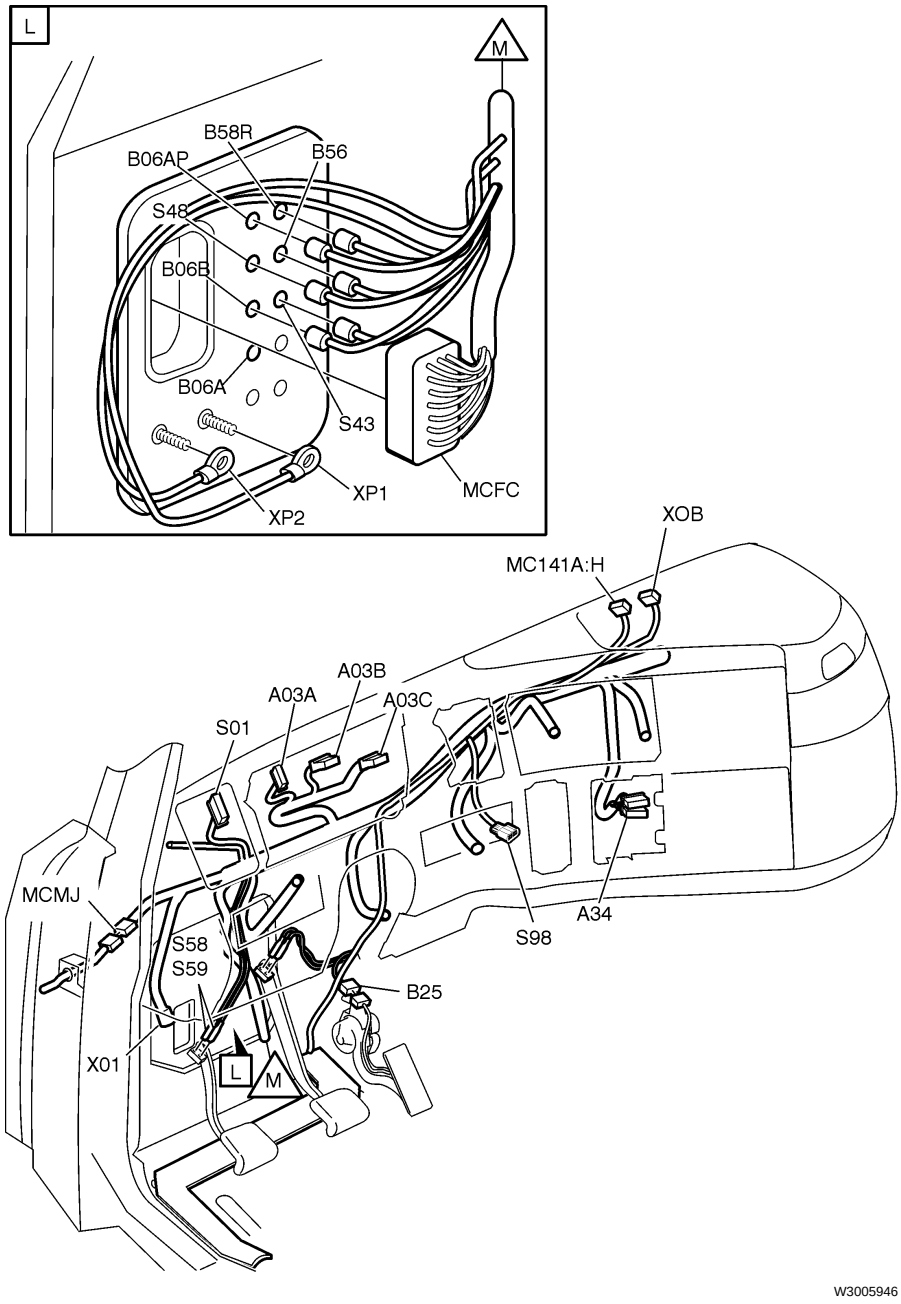
Dash Switches, VN



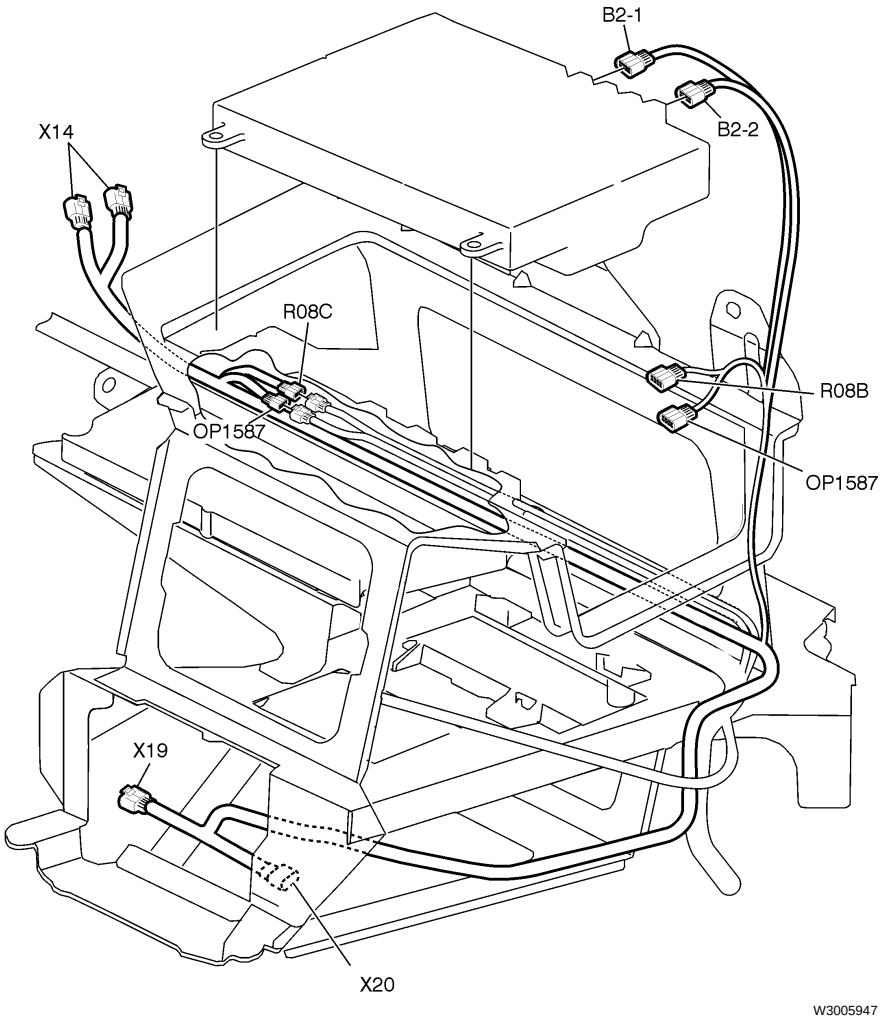
Dash Switches, VHD



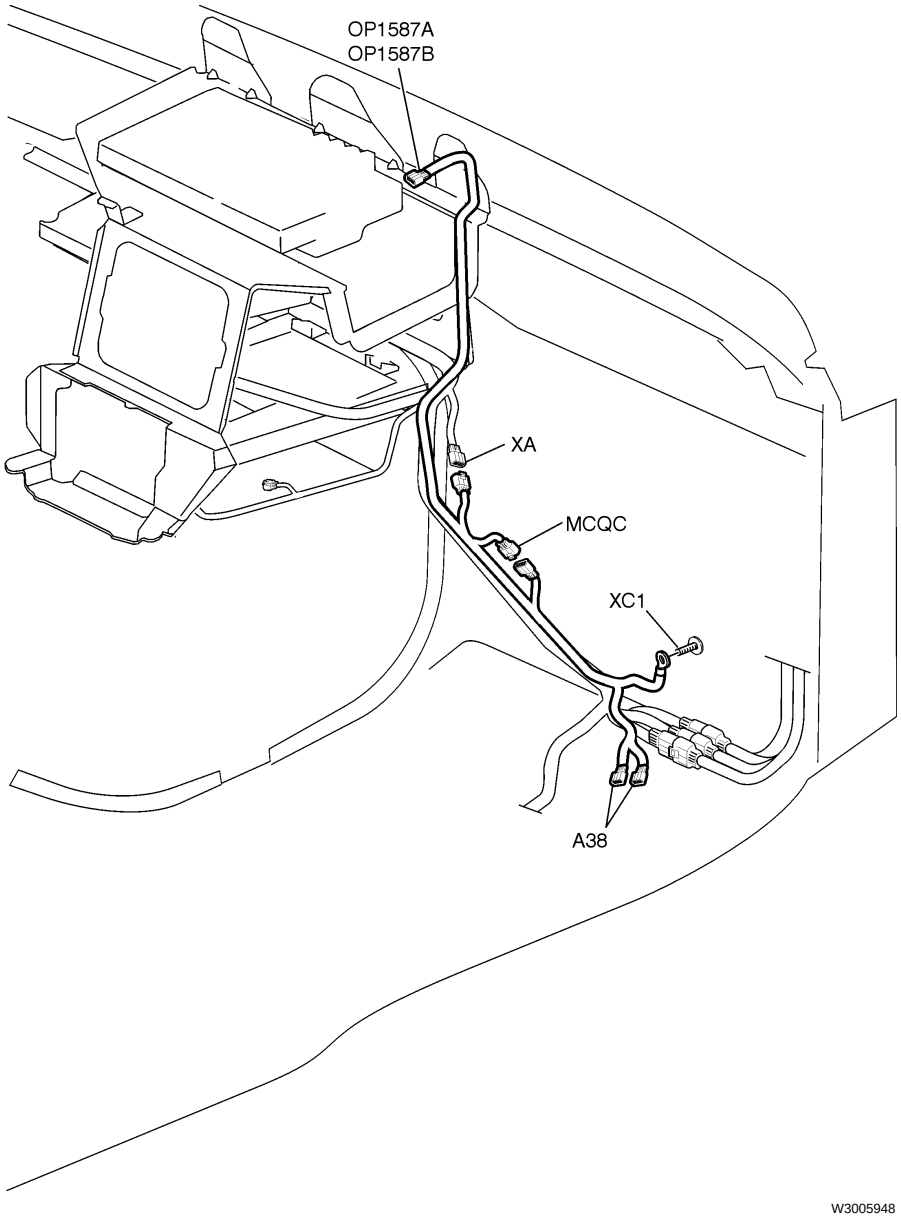
Dash Harness and Cab Wiring Passthrough



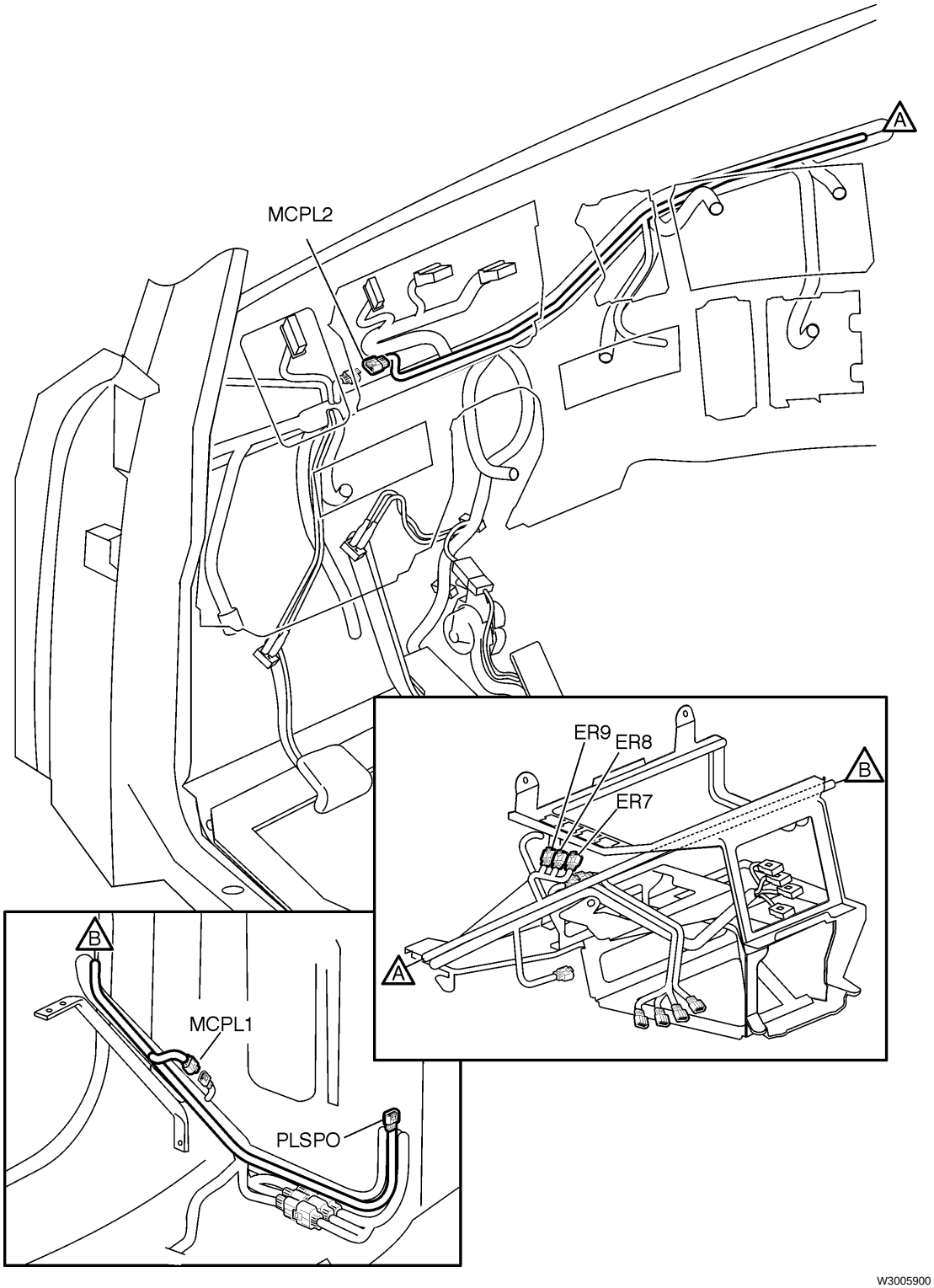
Dash Harness, Road Relay



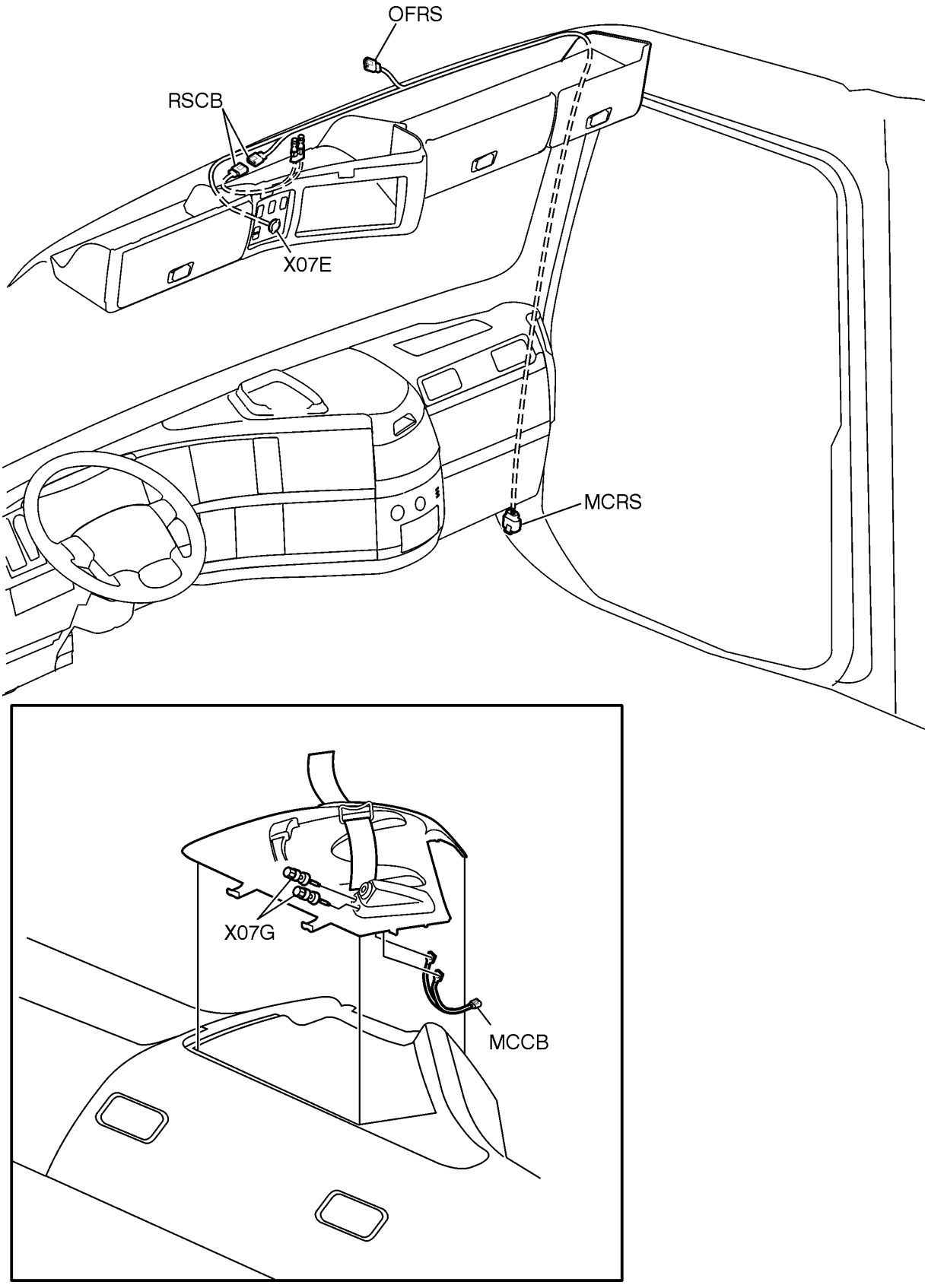
Dash Harness, Qualcomm



Dash Harness, Snowplow Lights Option

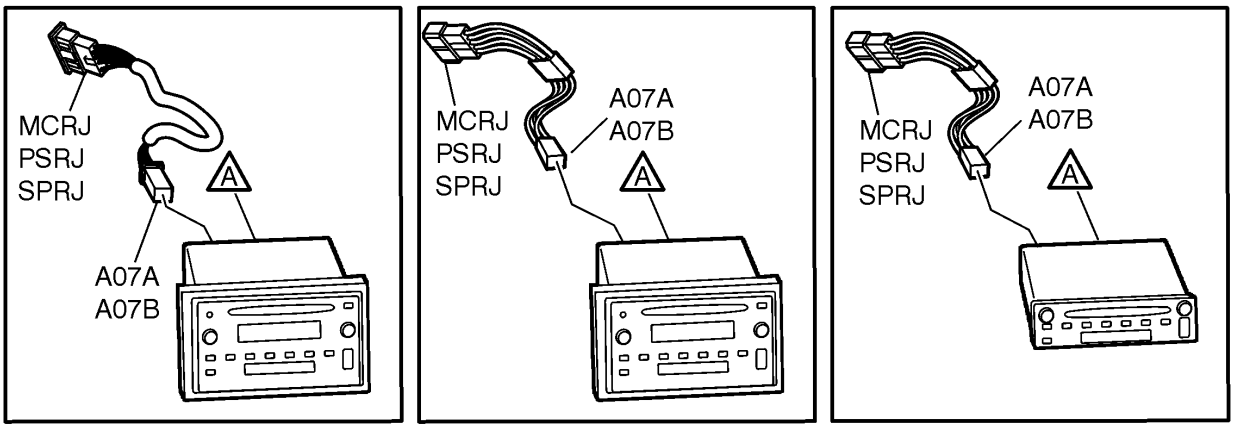


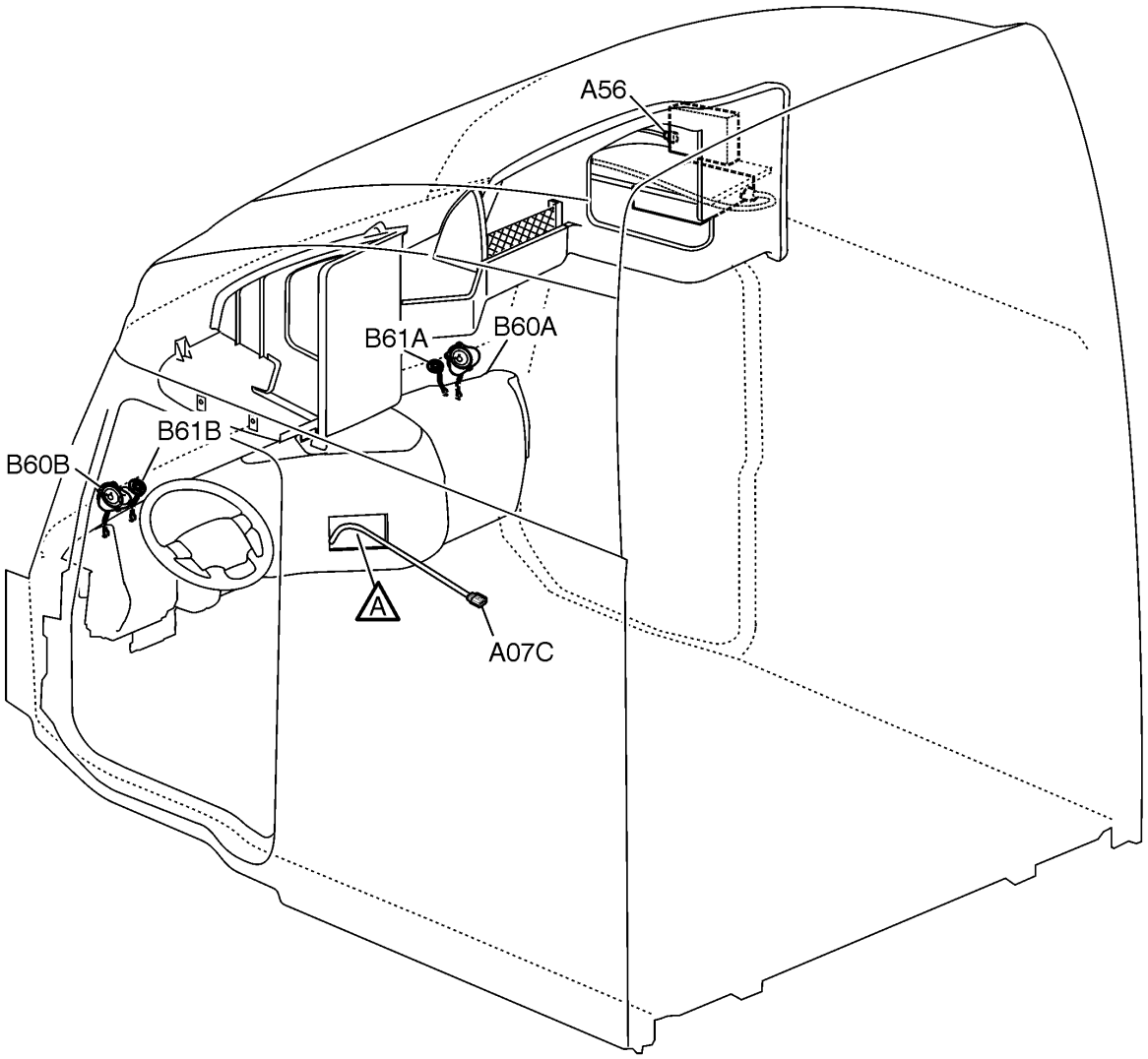
Front Overhead Shelf/CB Power Harness



W3005899

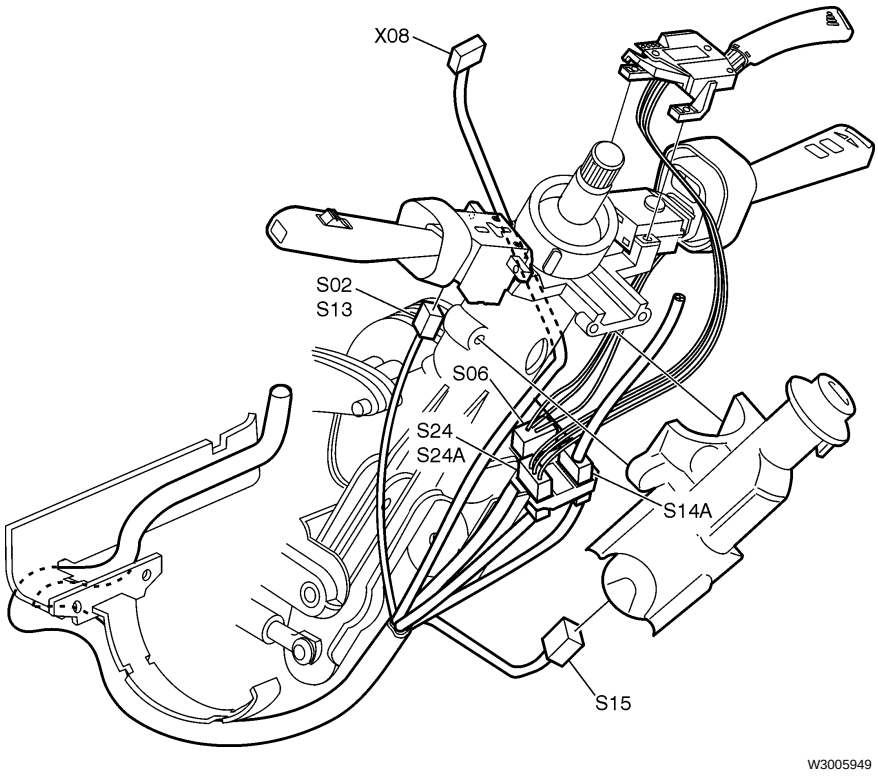
Radio Harness



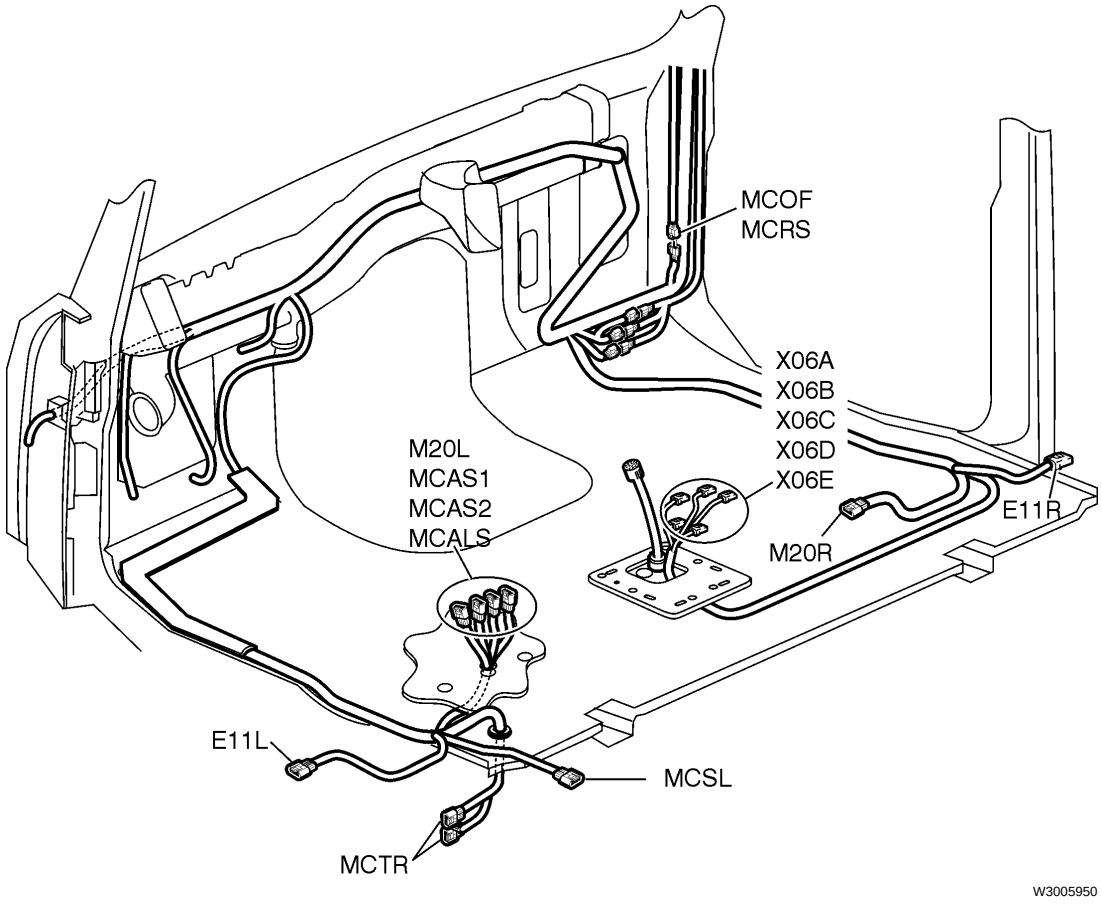


W3005915

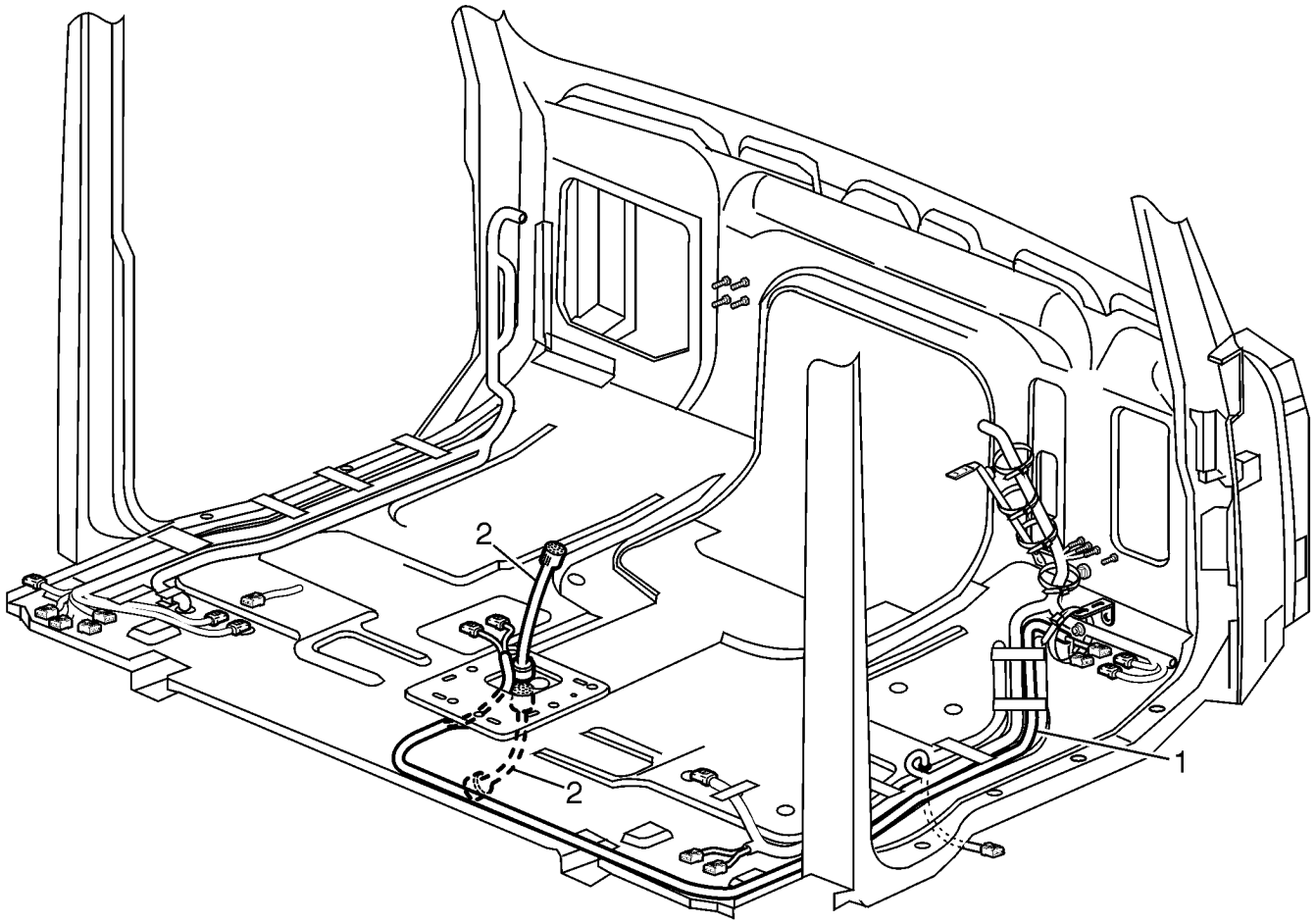
Steering Column Harness, Including Stalk Switches



Cab Floor Harnesses, Front



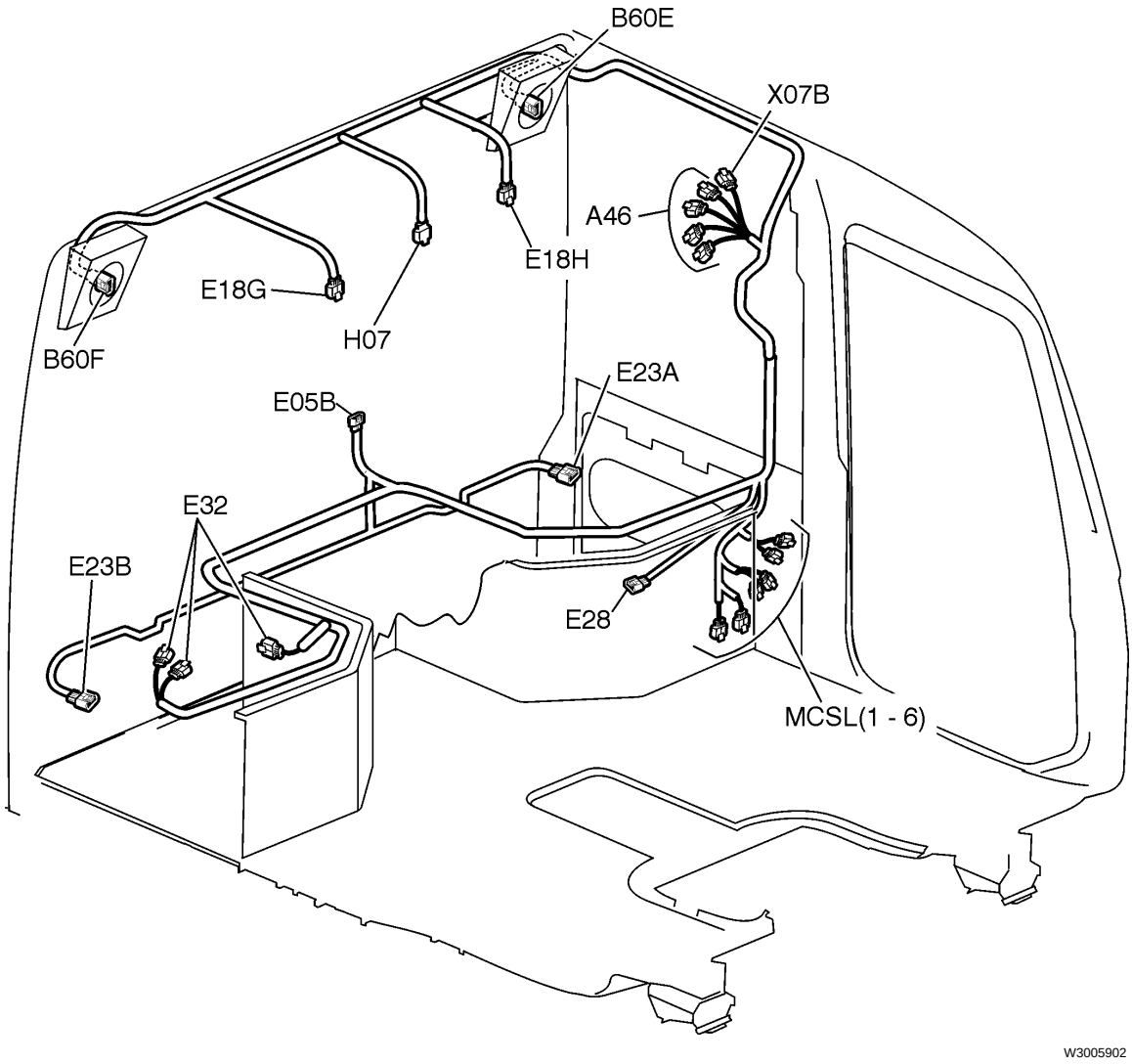
Cab Floor Harness, Bodybuilder Option (VHD)



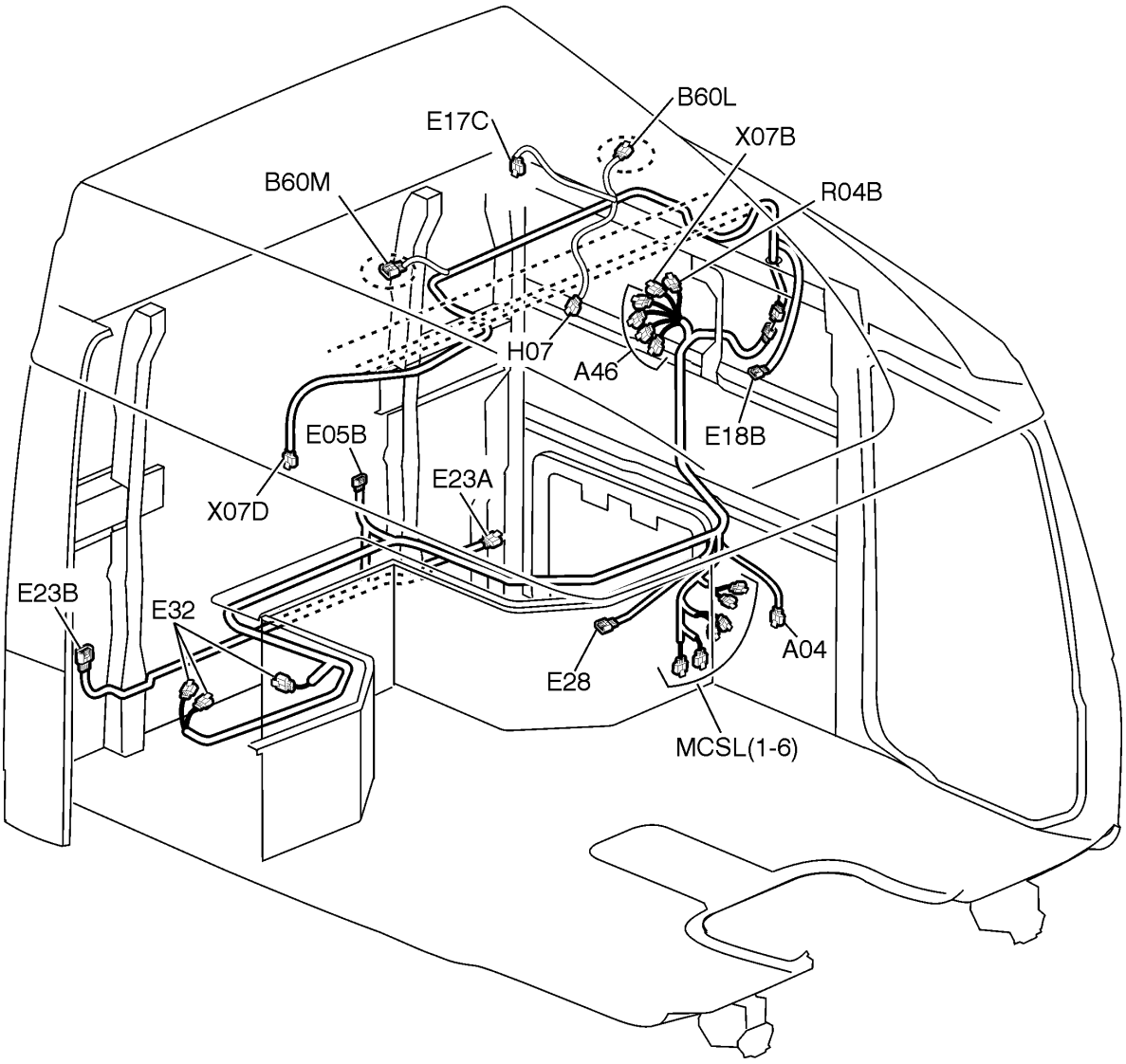
W3004424

1 Bodybuilder Overlay Harness (either 2 or 4 connectors on each side)
2 Bodybuilder Cab Floor Passthrough Harness

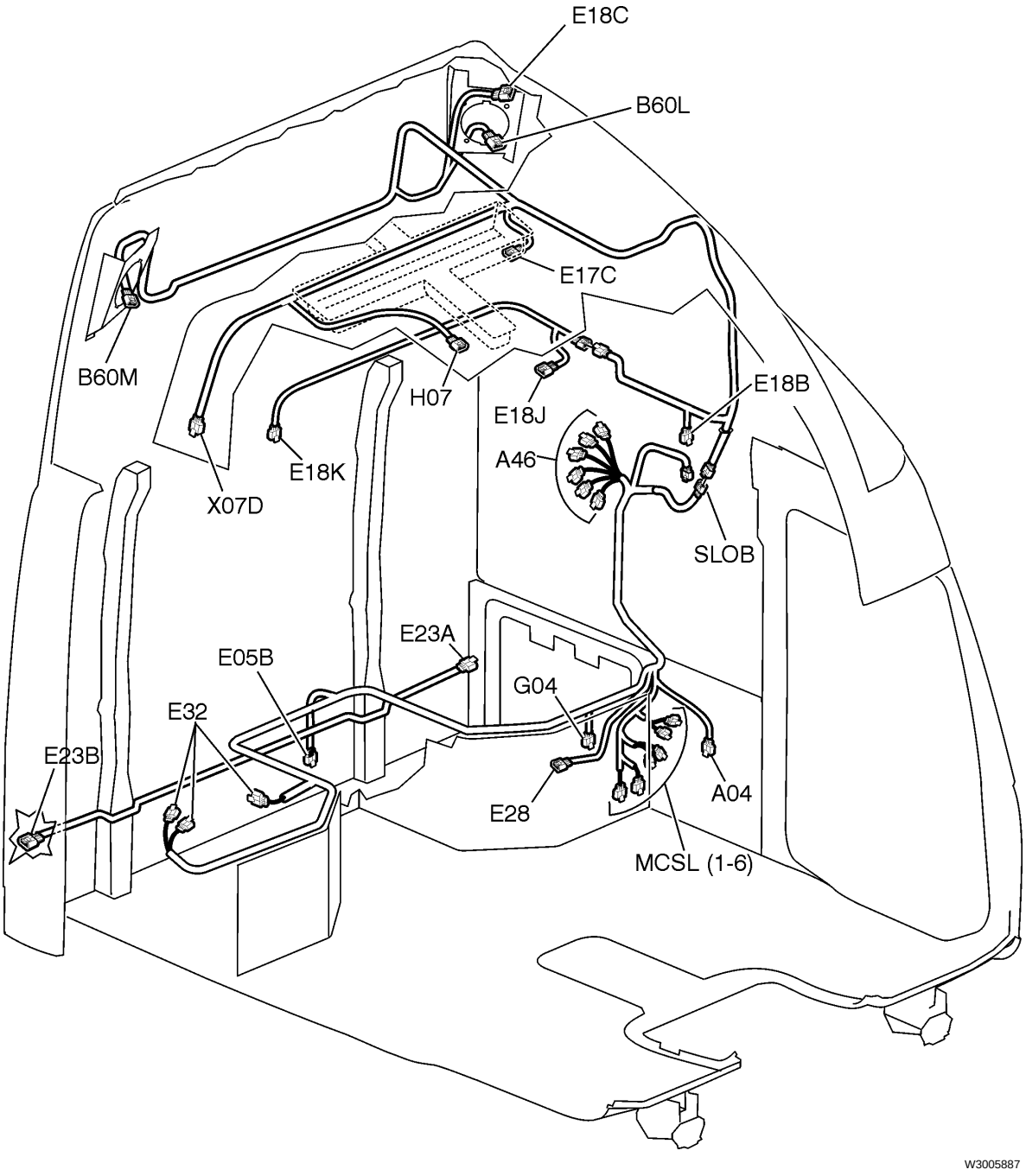
Rear Cab Harness, VN430



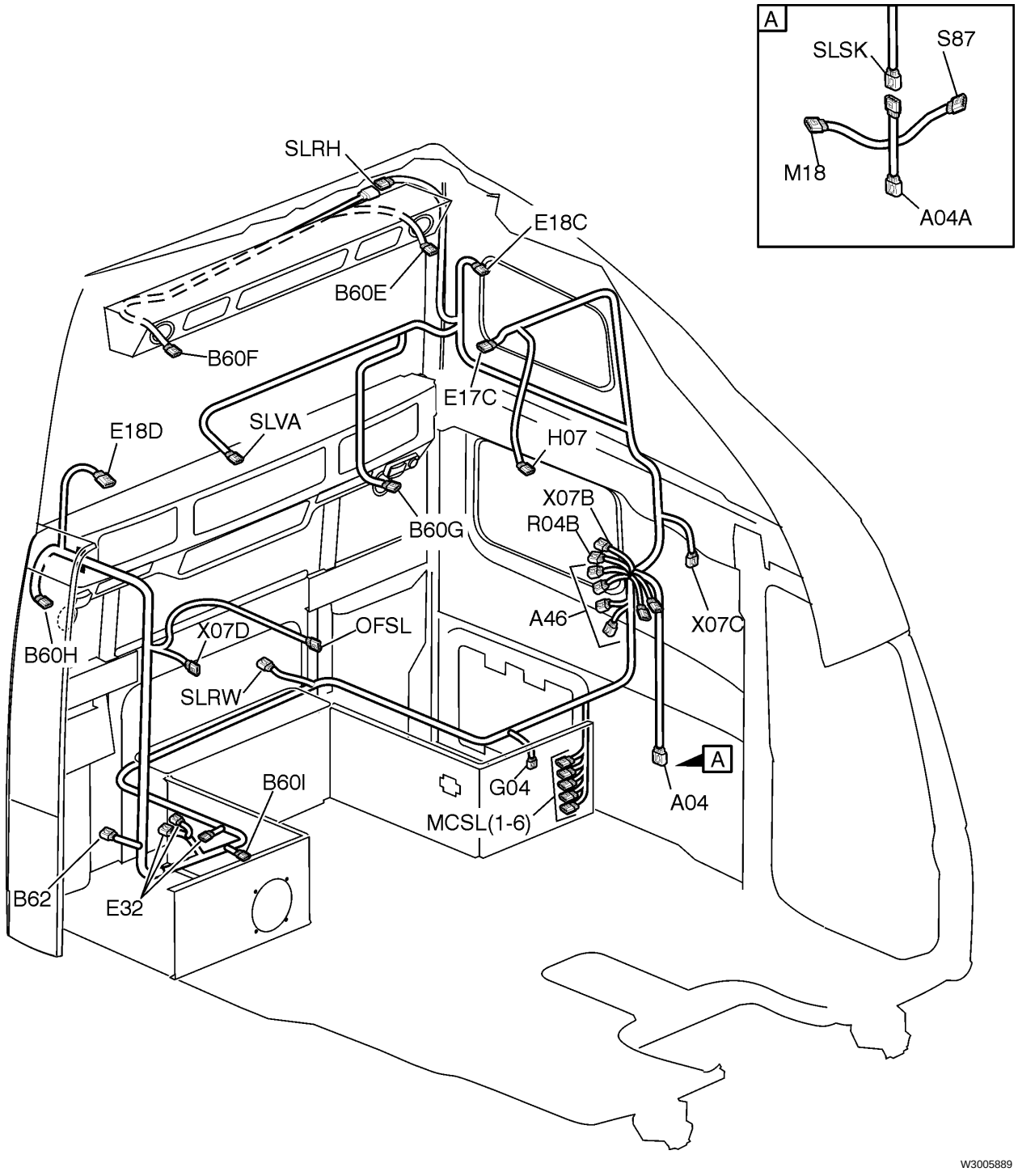
Rear Cab Harness, VN630



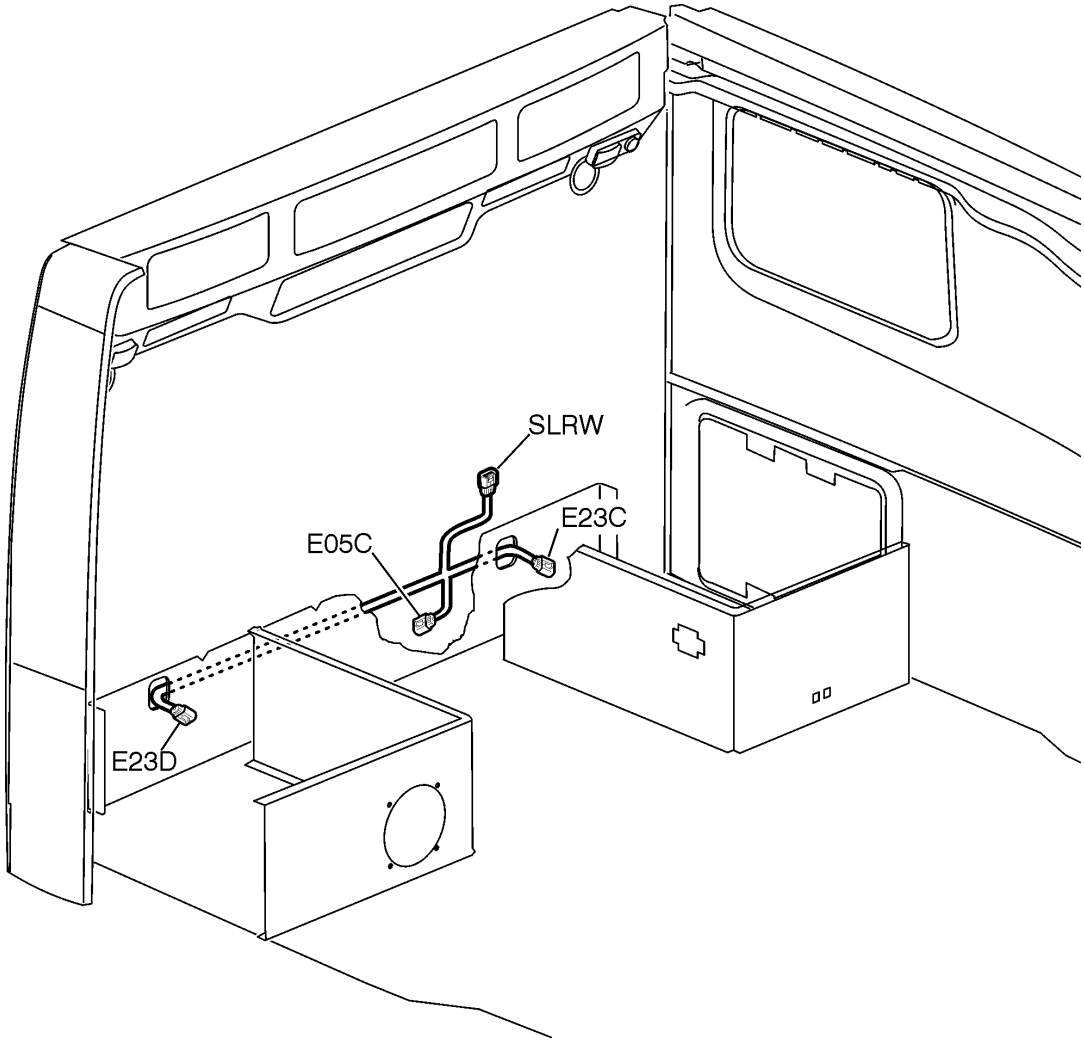
Rear Cab Harness, VN670



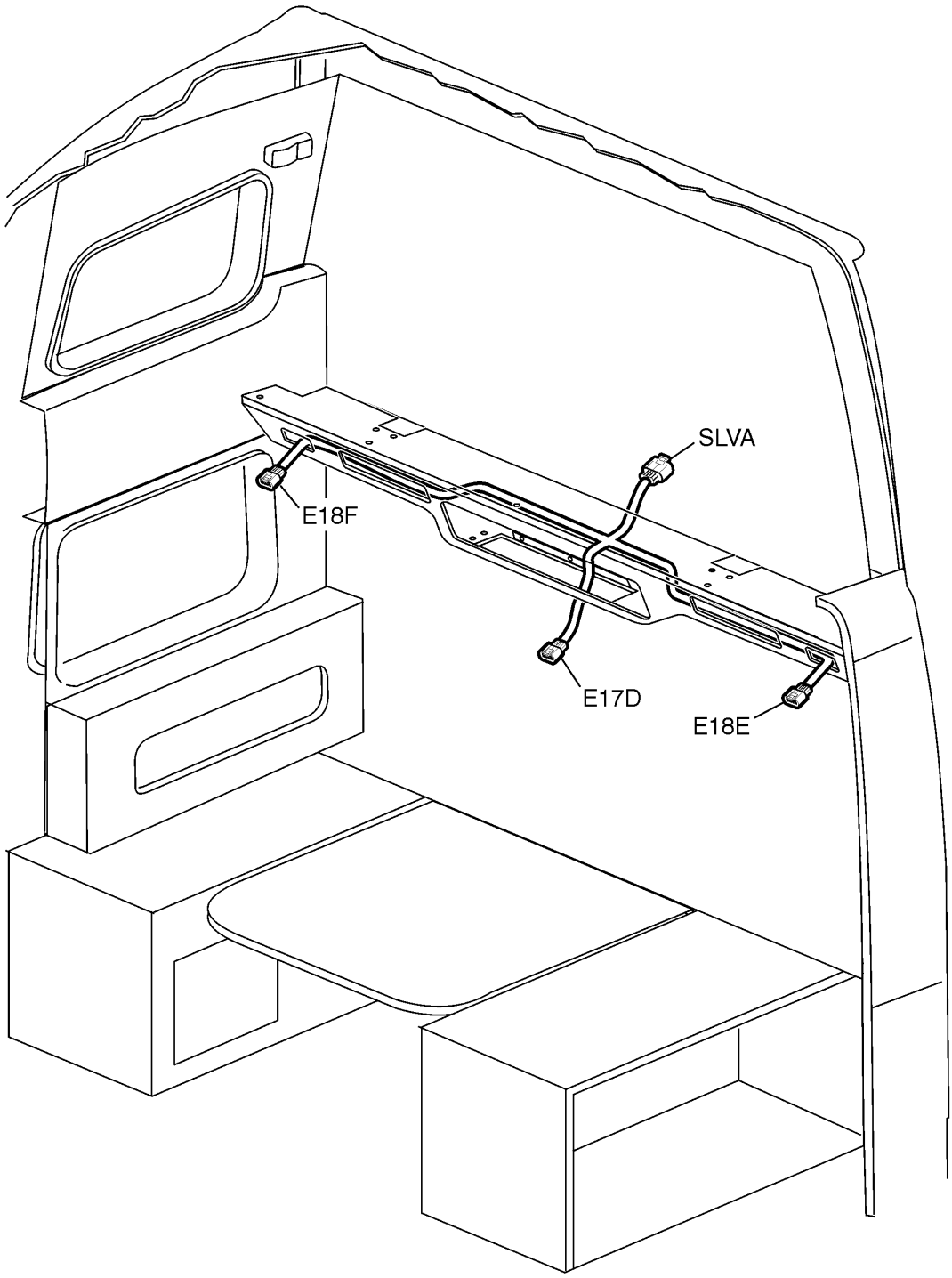
Rear Cab Harness, VN780



Rear Cab, Lower Wall Harness, VN780

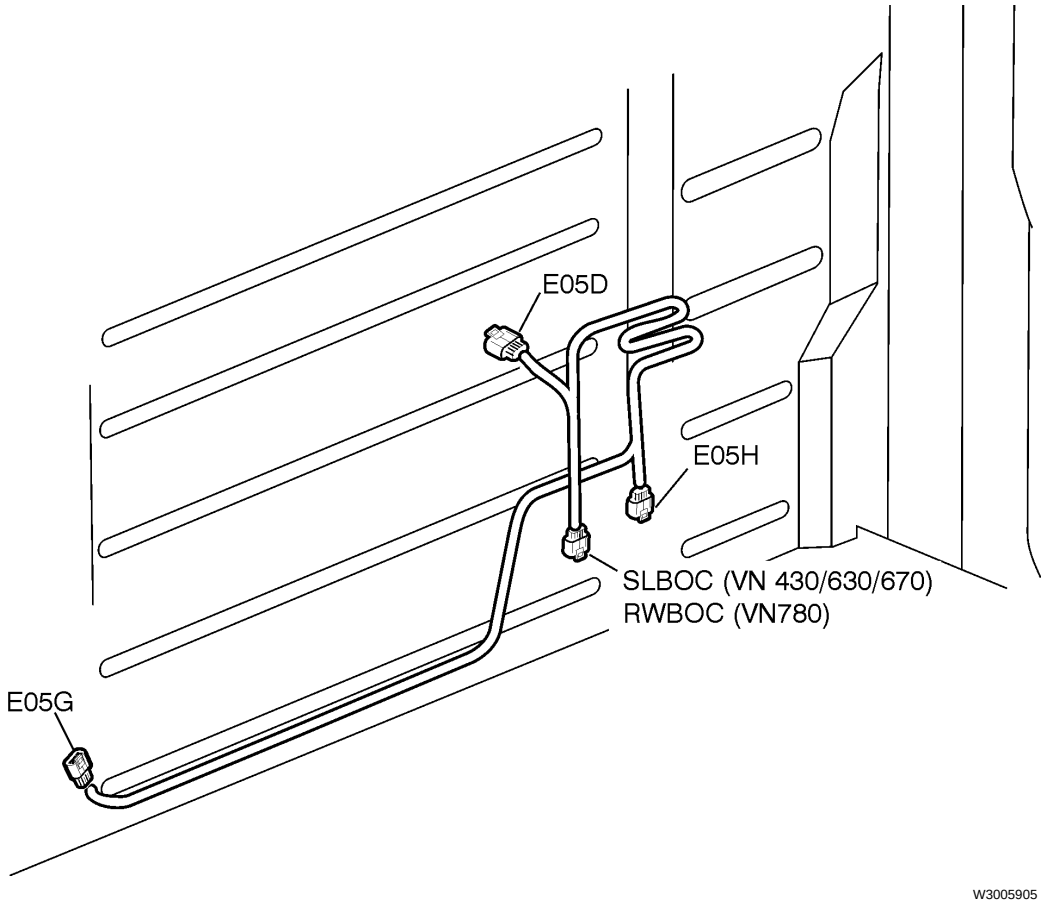


Rear Cab Valance Harness, VN780

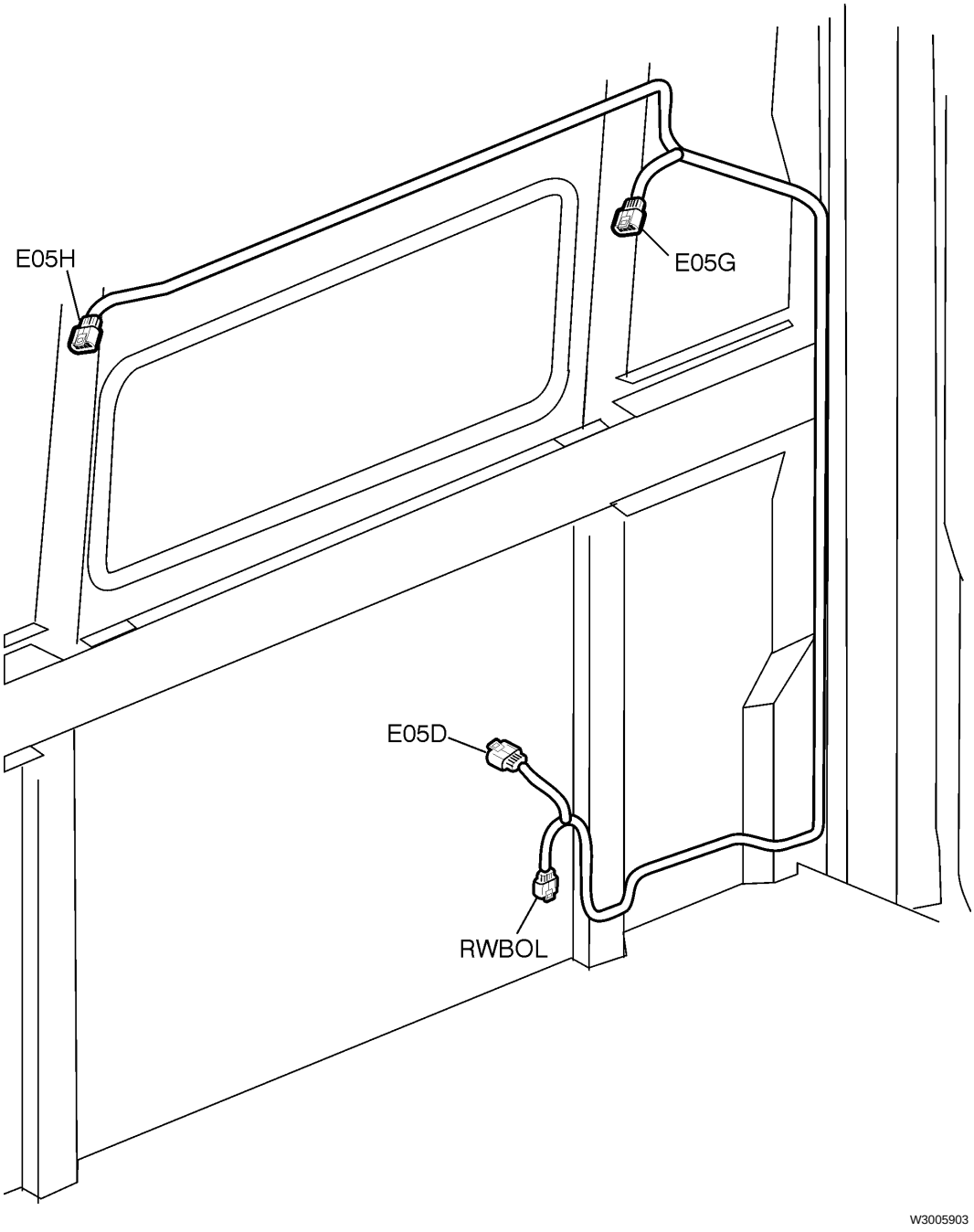


W3005936

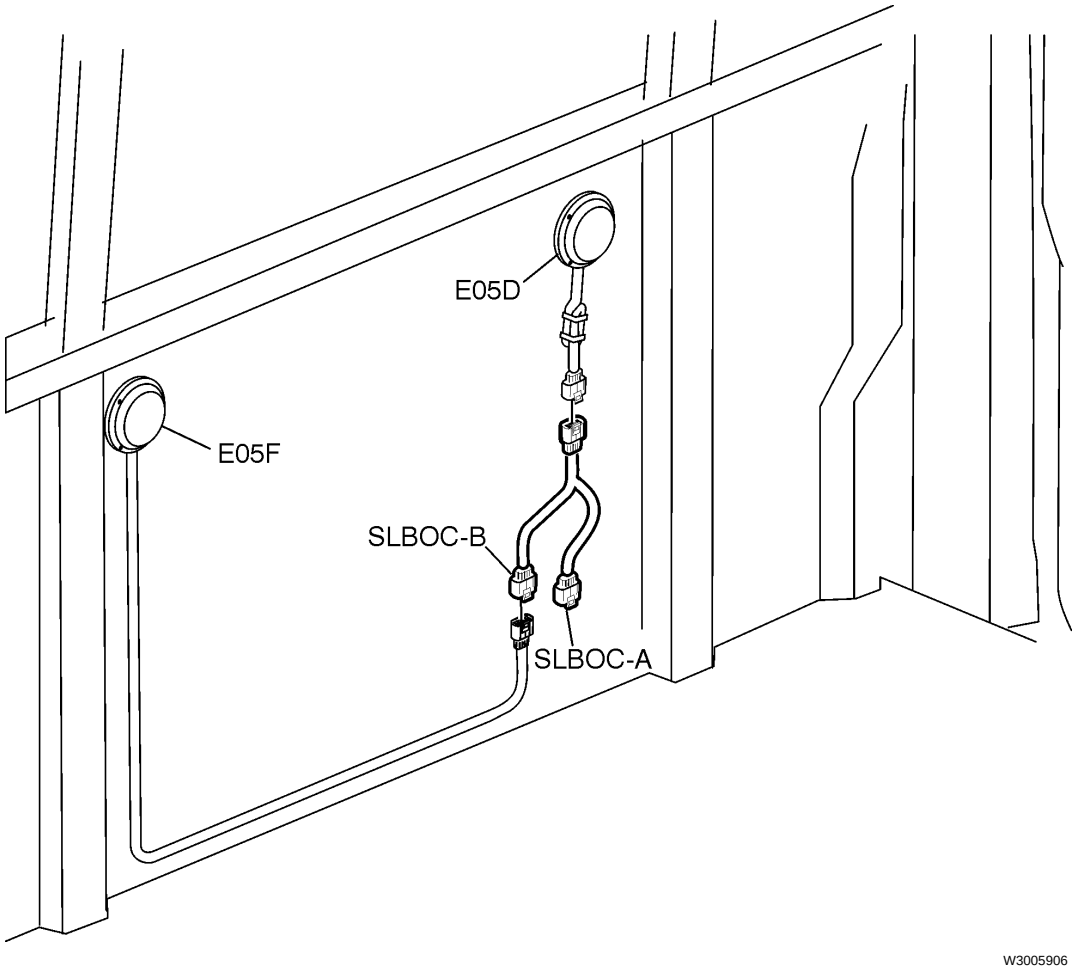
Rear Cab Harness, Back of Cab Lights (HDI/HDO Variant)



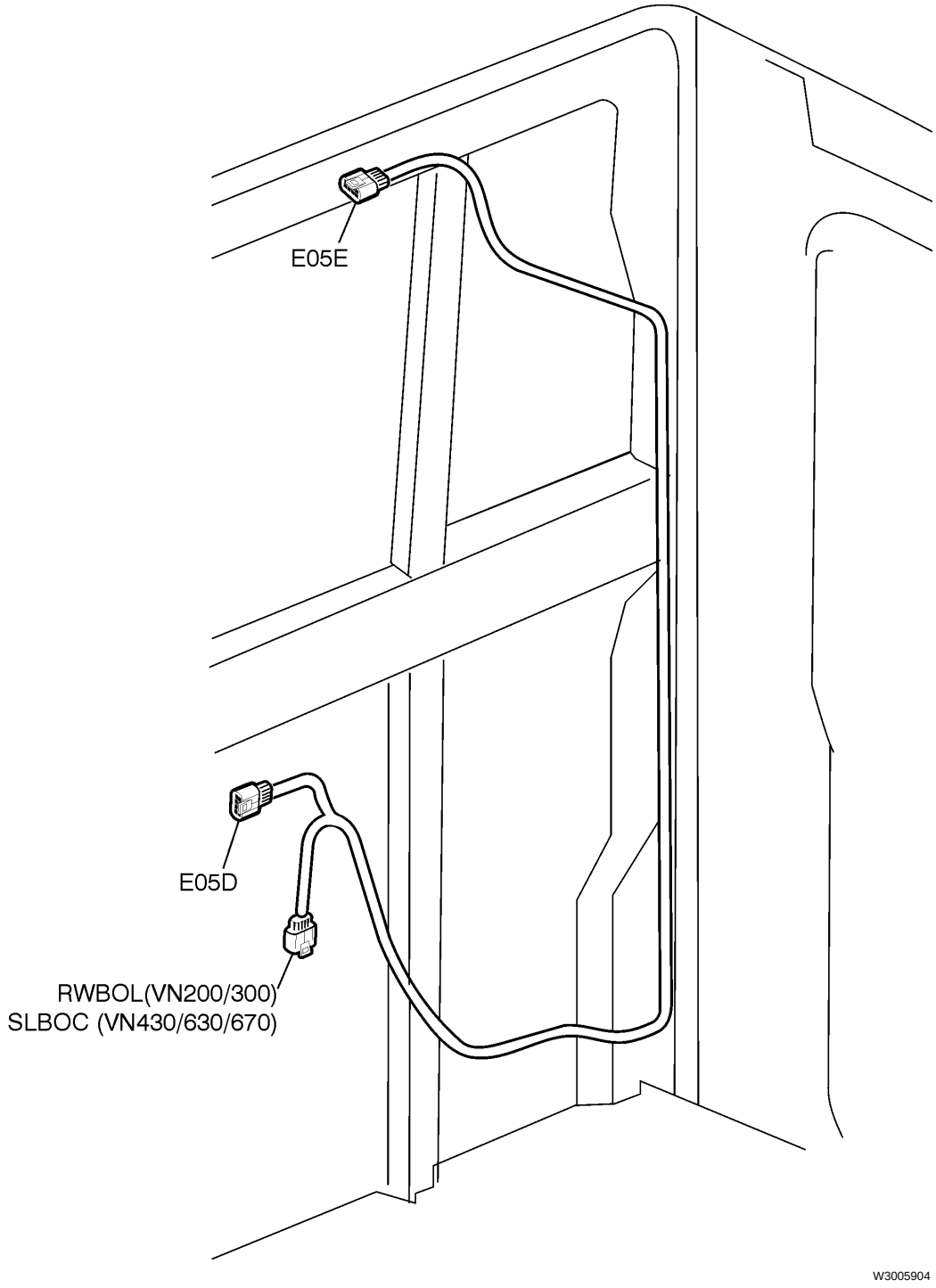
Rear Cab Harness, Back of Cab Lights (LDI/LDO Variant)



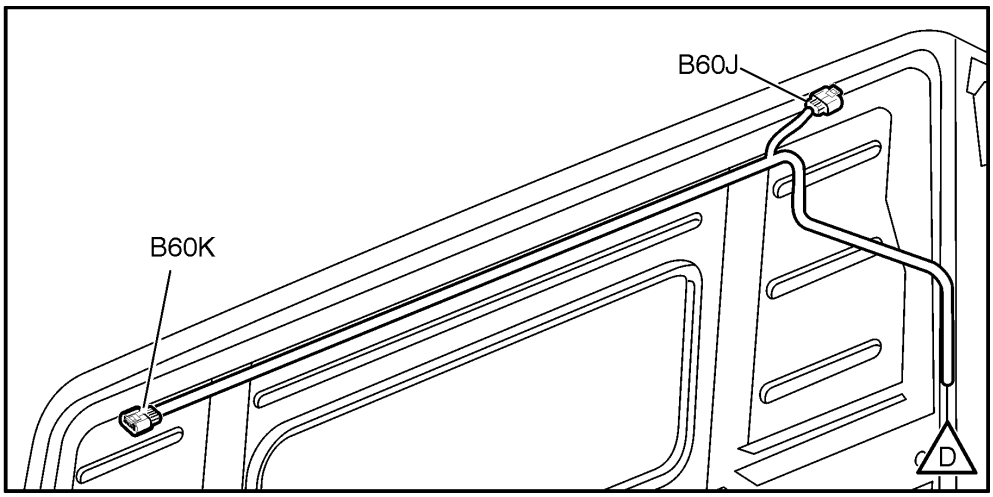
Rear Cab Harness, Fifth Wheel Light

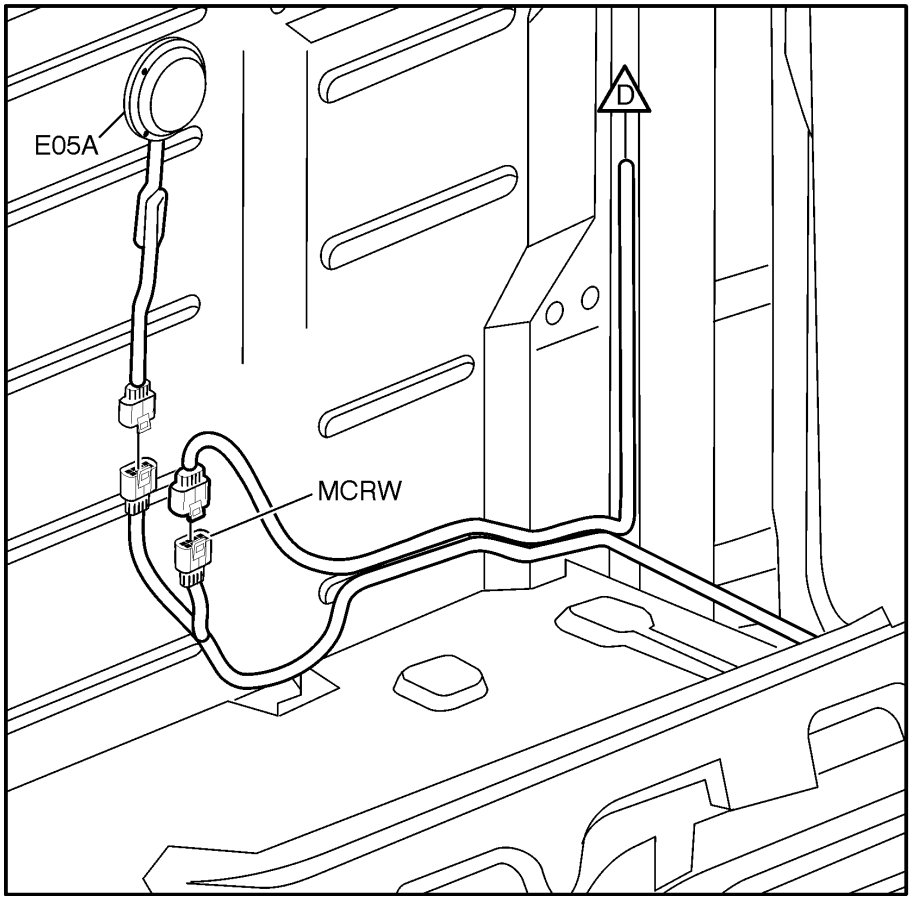


Rear Cab Harness, Fifth Wheel Light



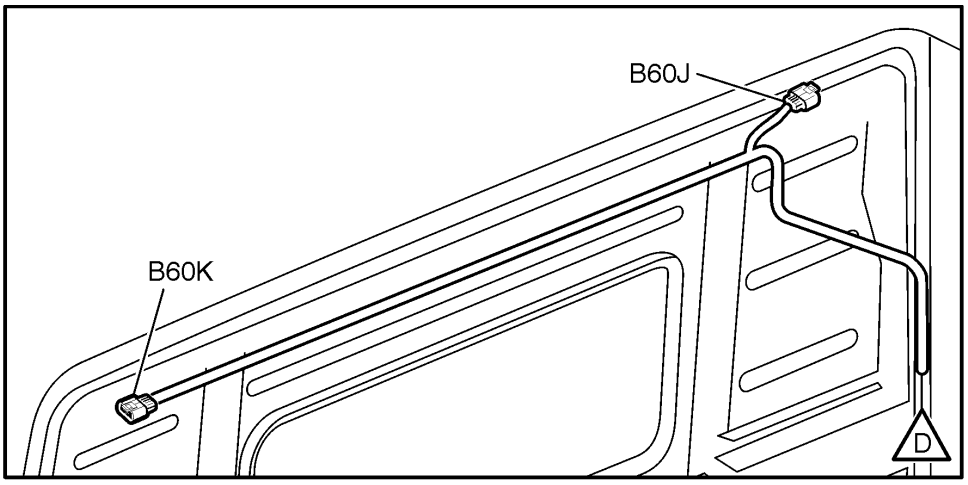
Rear Cab Harness, Fifth Wheel Light and Rear Speakers (Daycab)

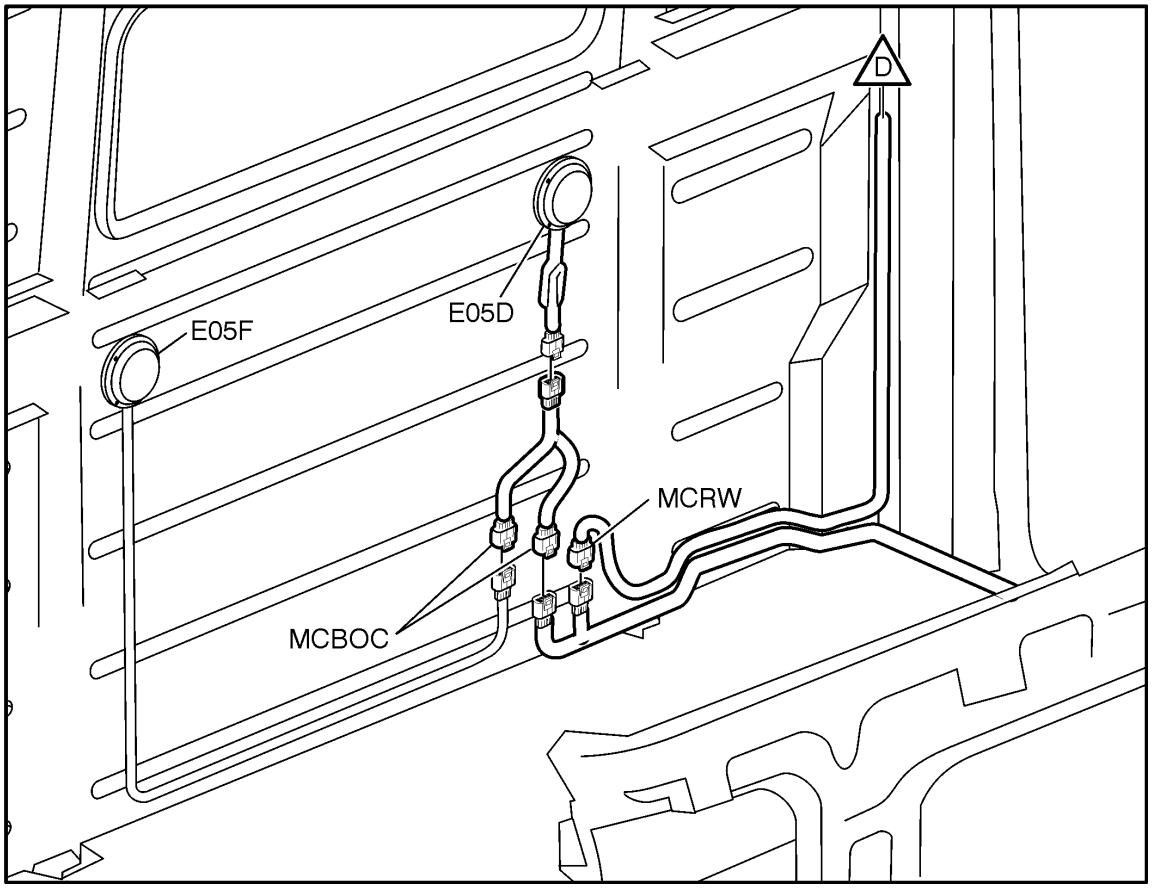




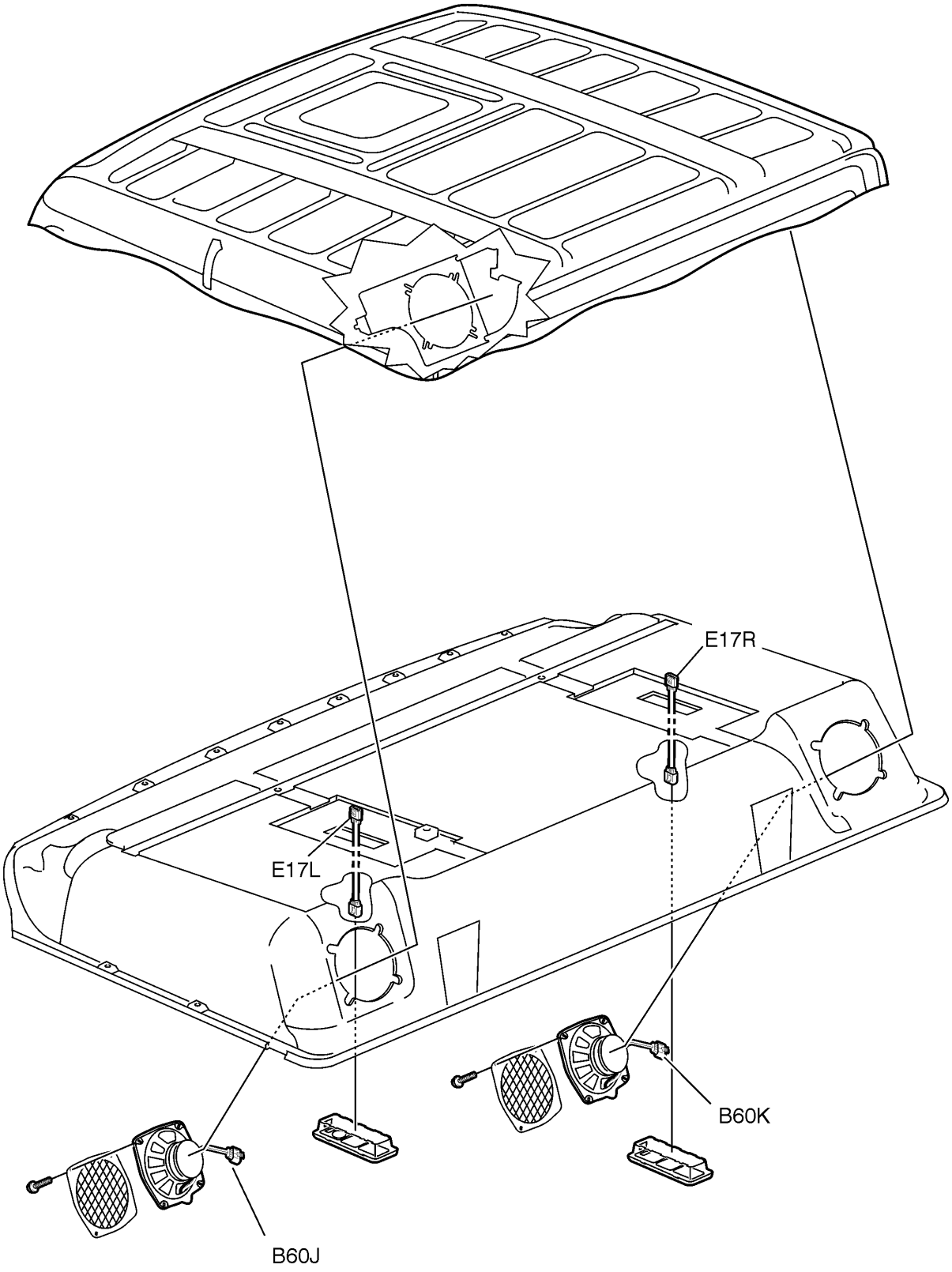
W3005895

Rear Cab Harness, Dual Fifth Wheel Light and Rear Speakers (Daycab)



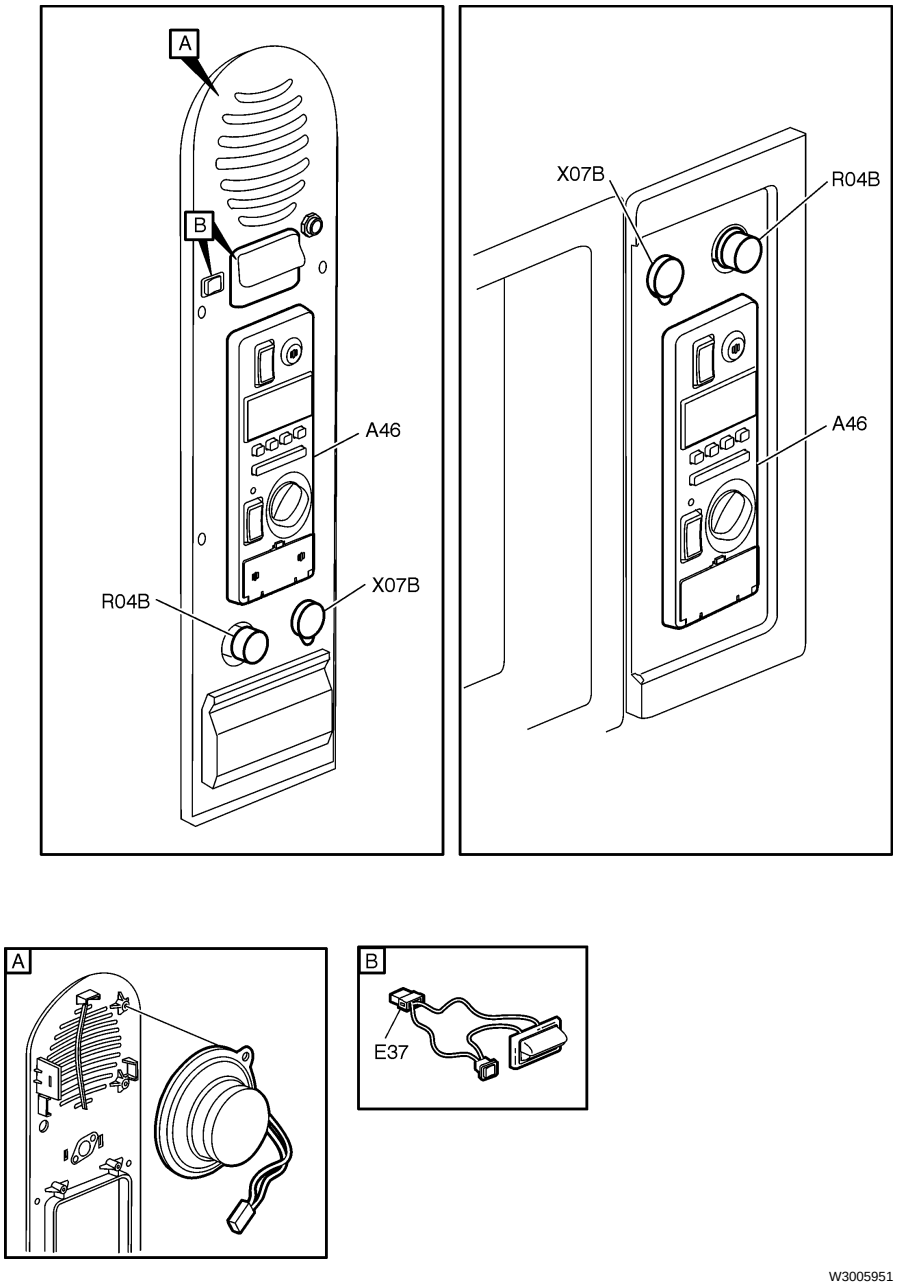


Rear Cab Harness, Overhead Lights and Rear Speaker Detail

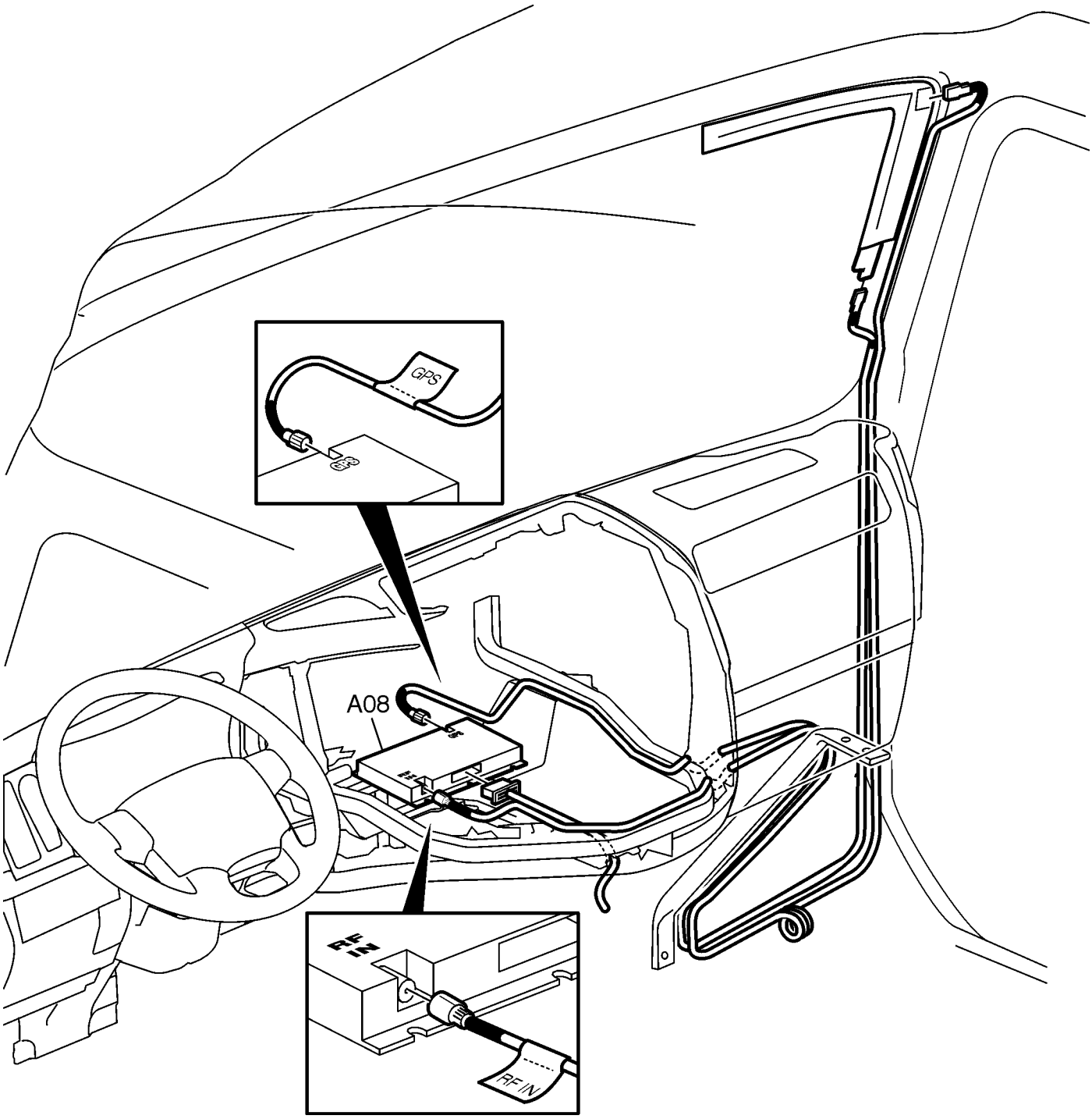


W3005939

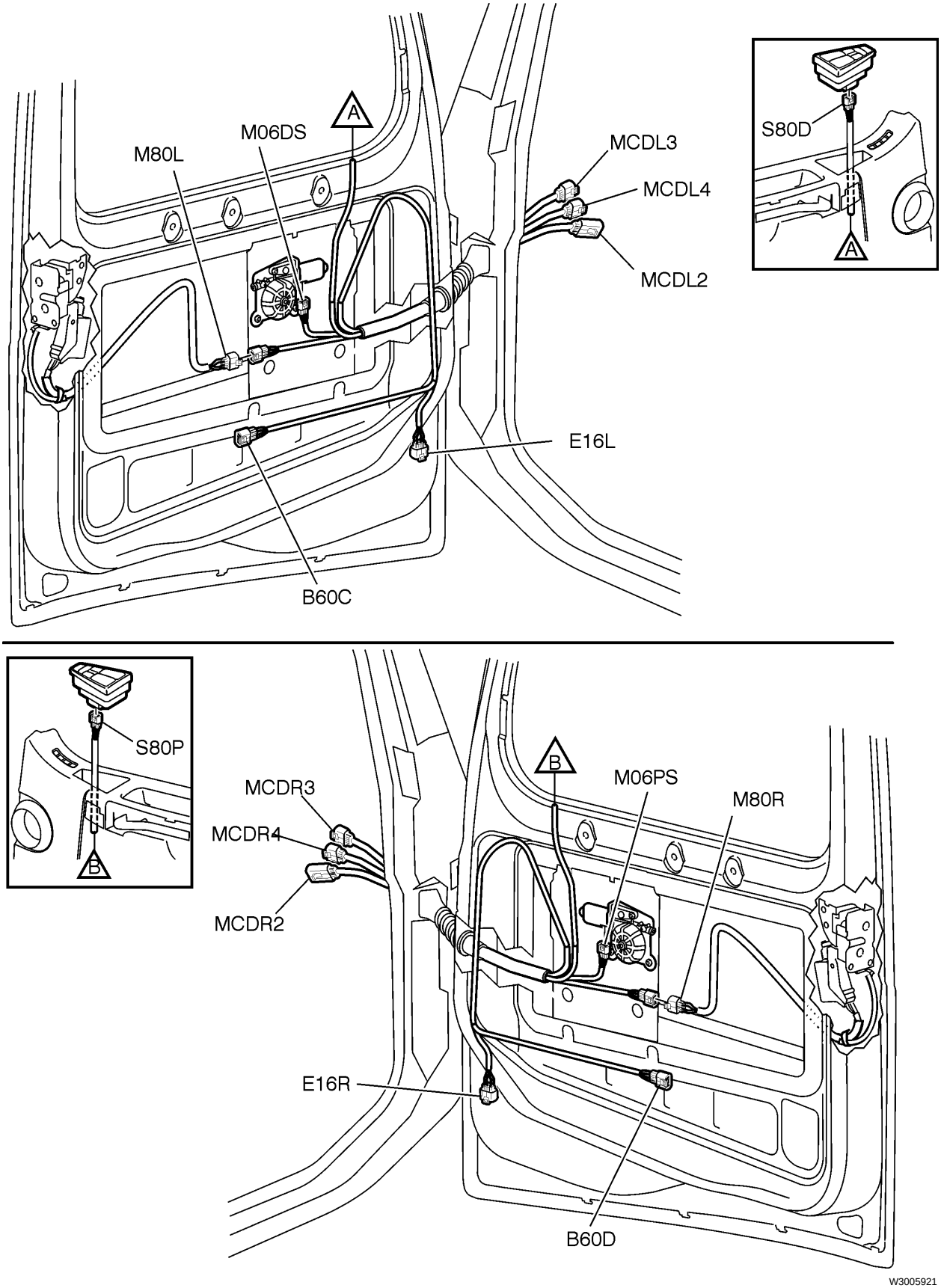
Sleeper Control Panel (LECM)



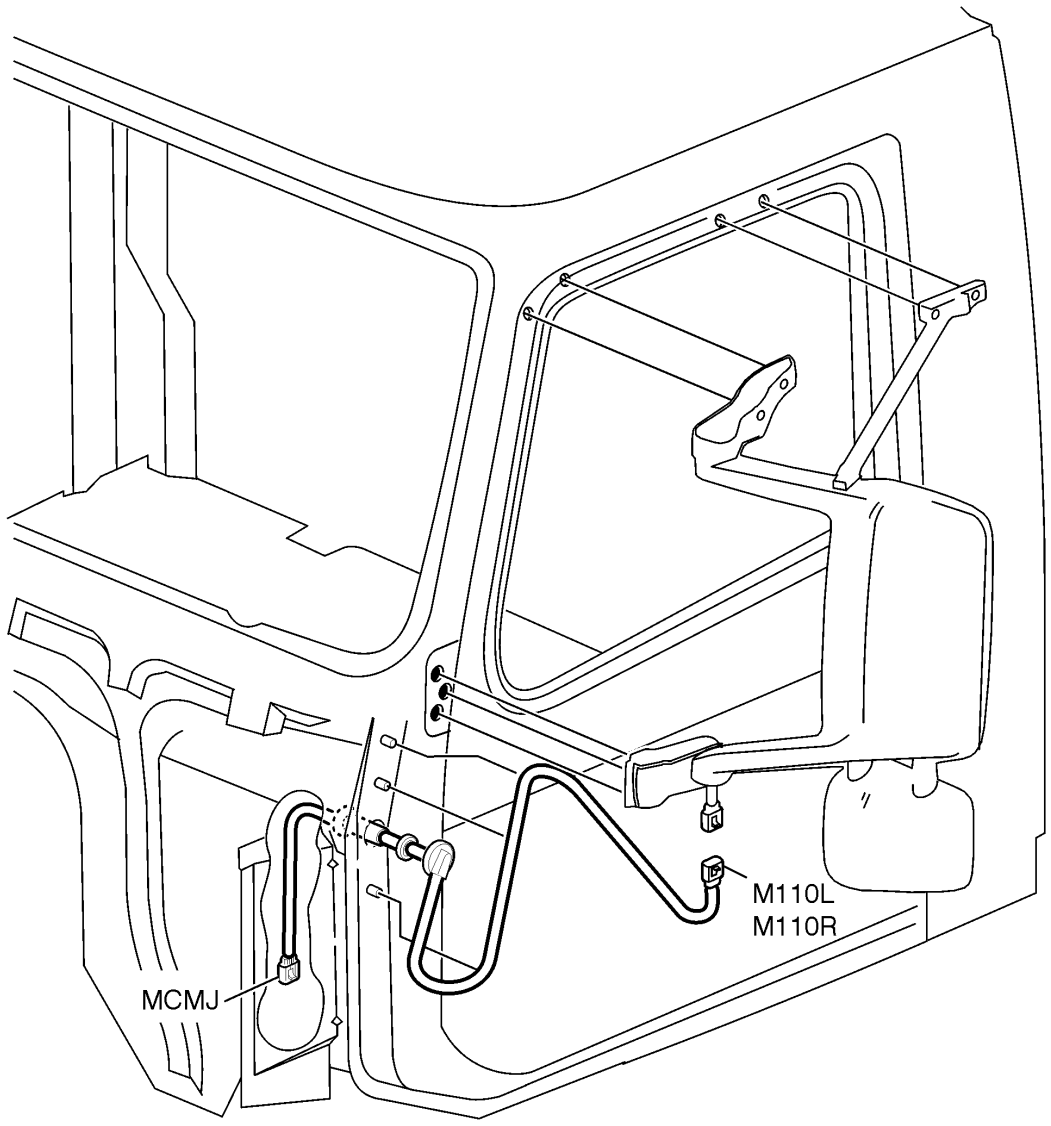
Volvo Link Harness and Antennas



Door Harness

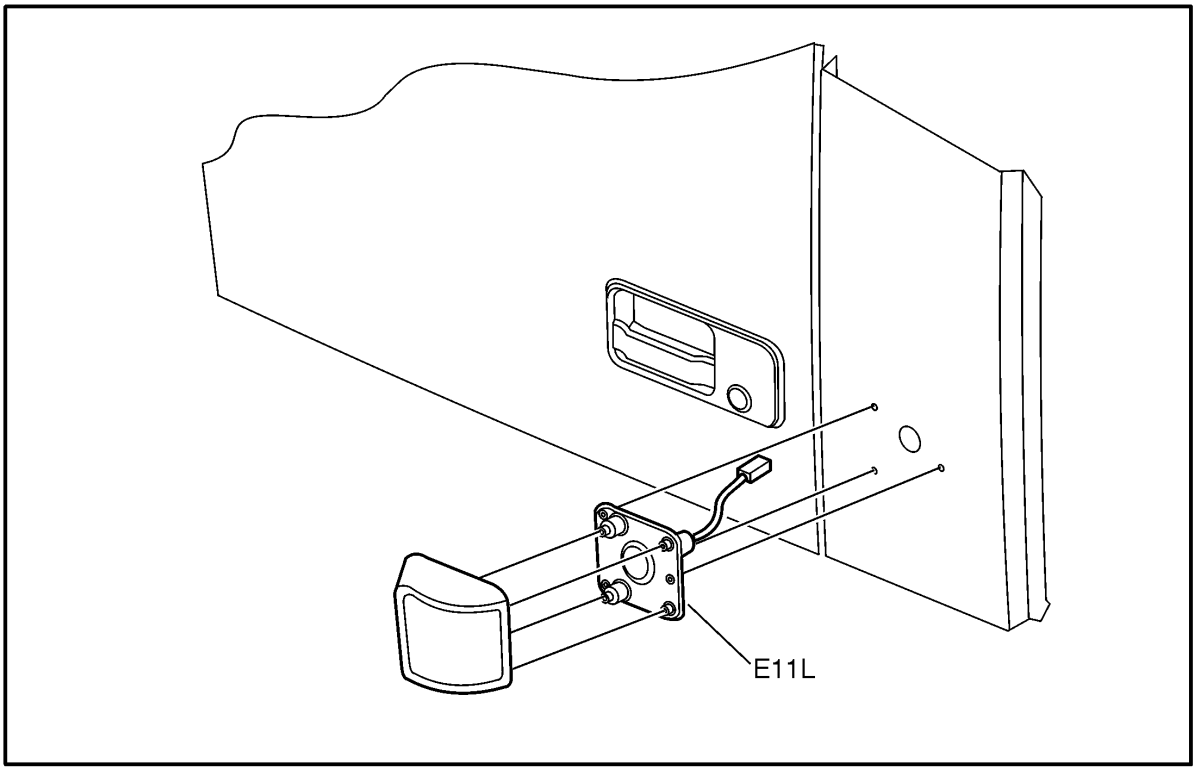


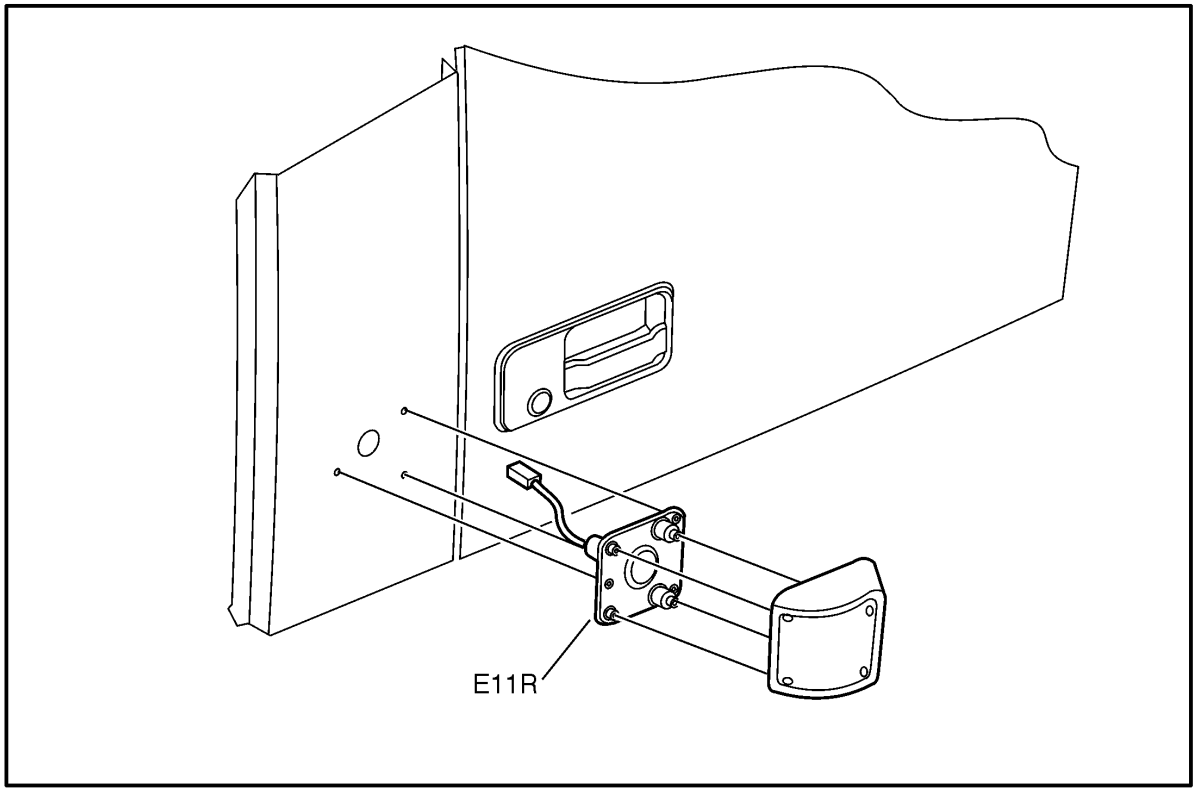
Side Mirrors



W3005917

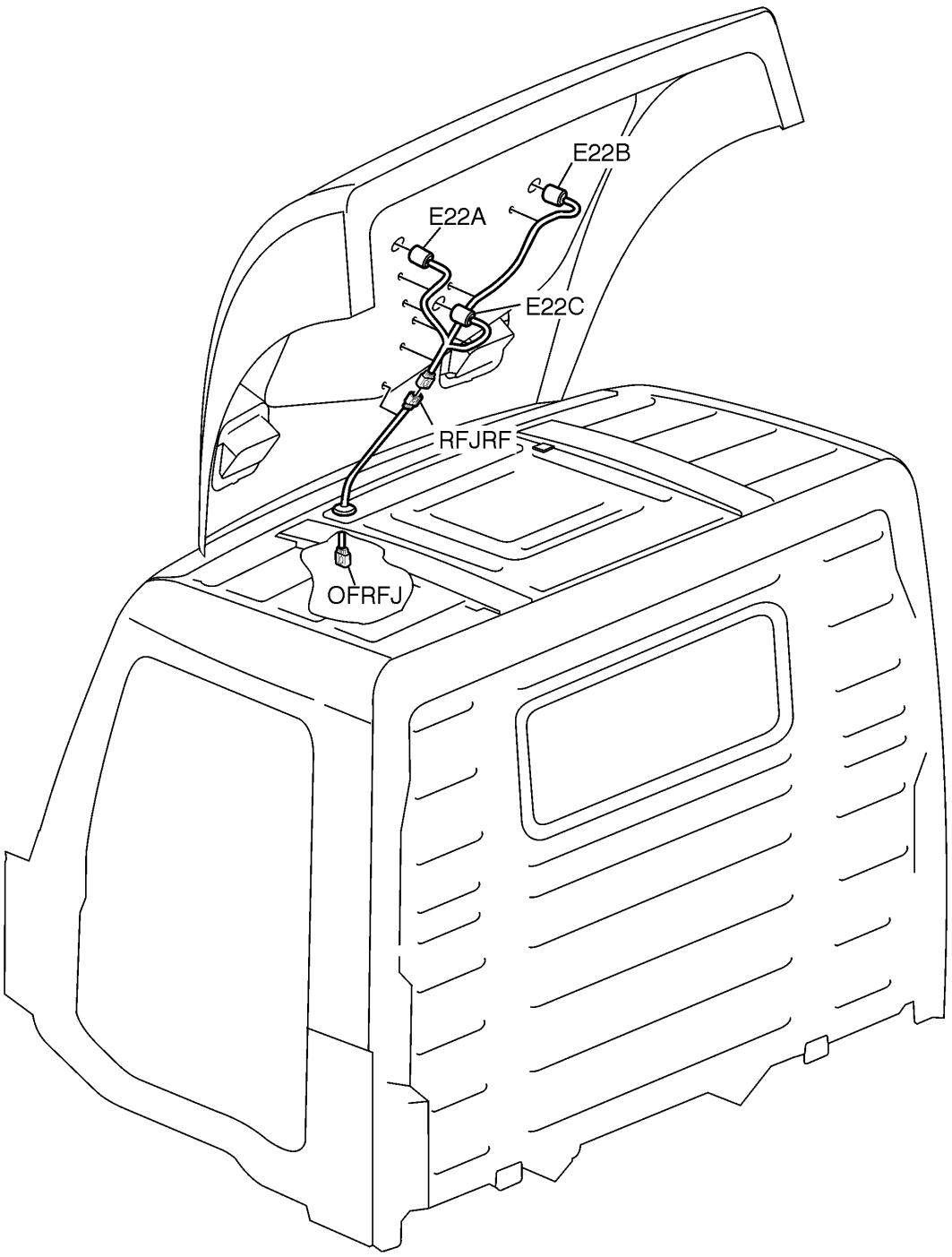
Side Markers





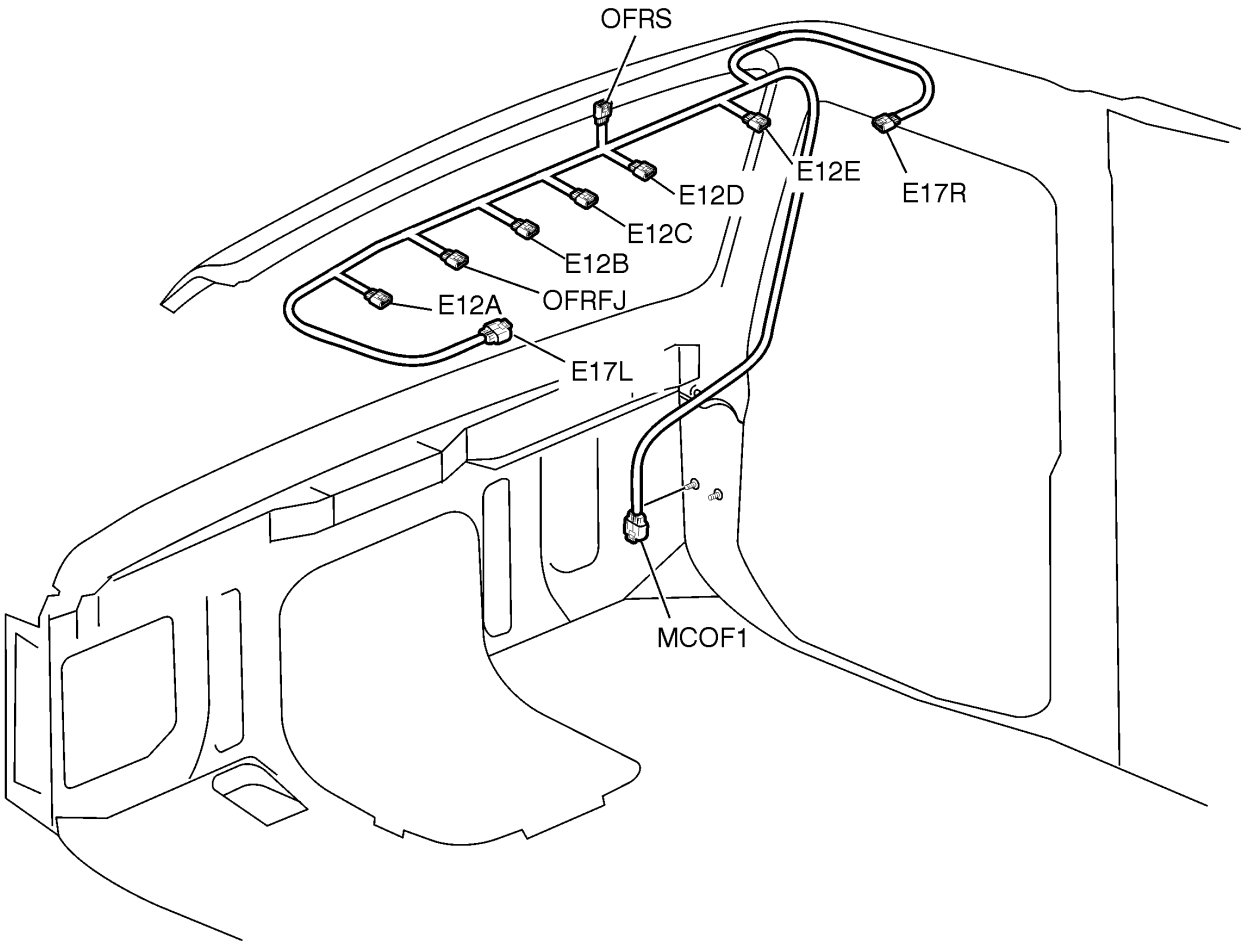
W3005928

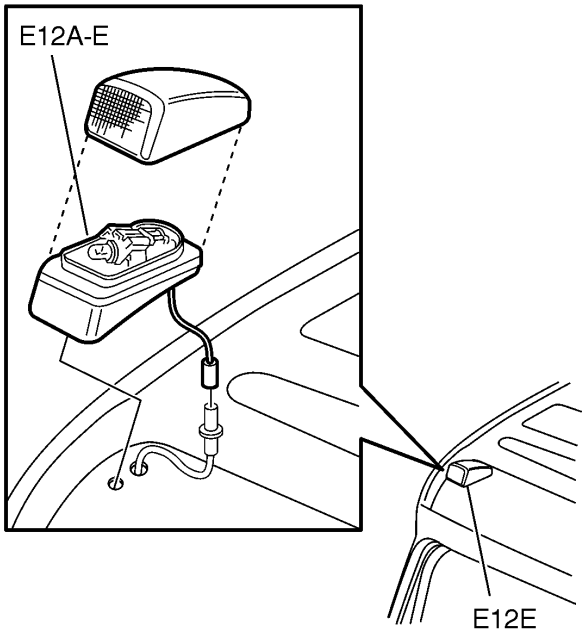
Roof Sign Harness



W3005923

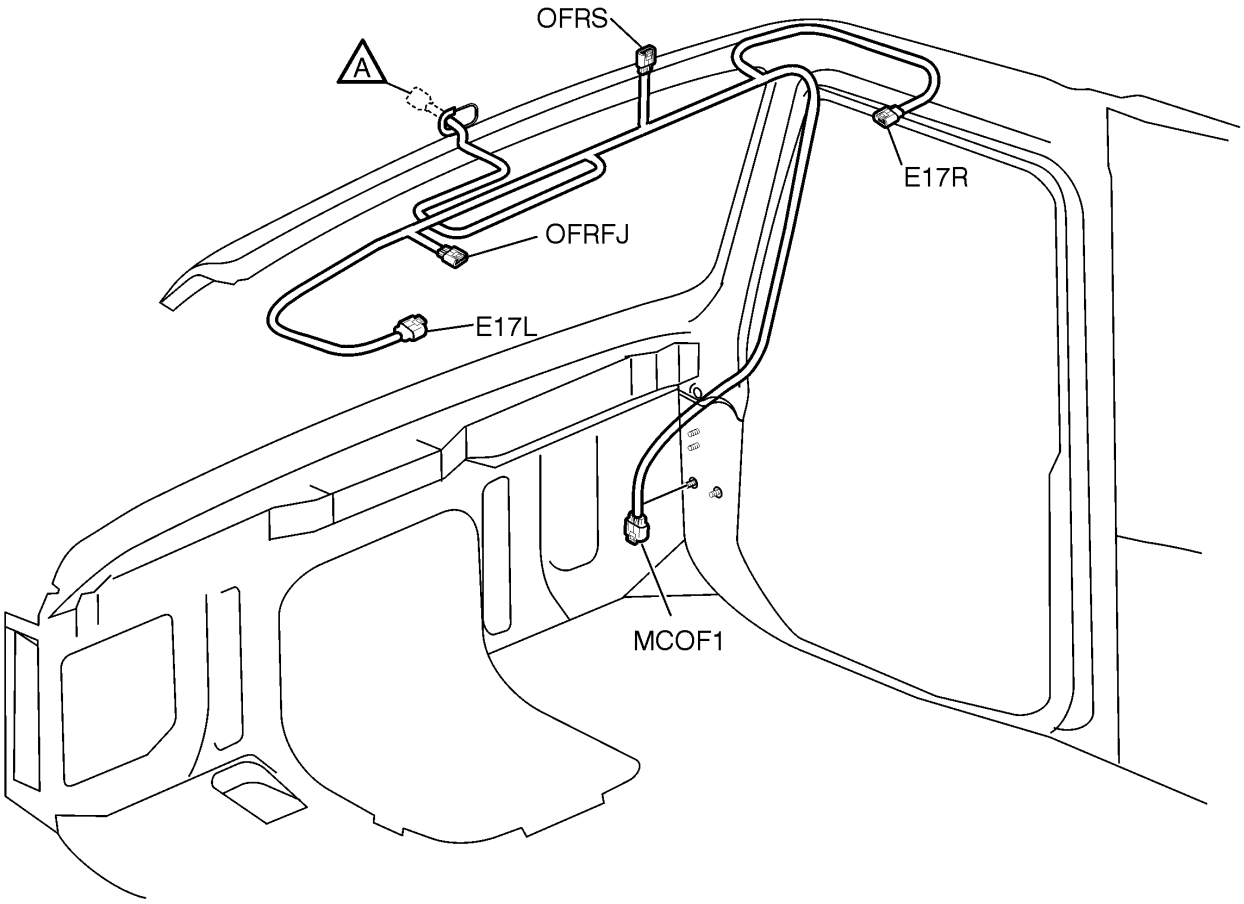
Overhead Marker Lights

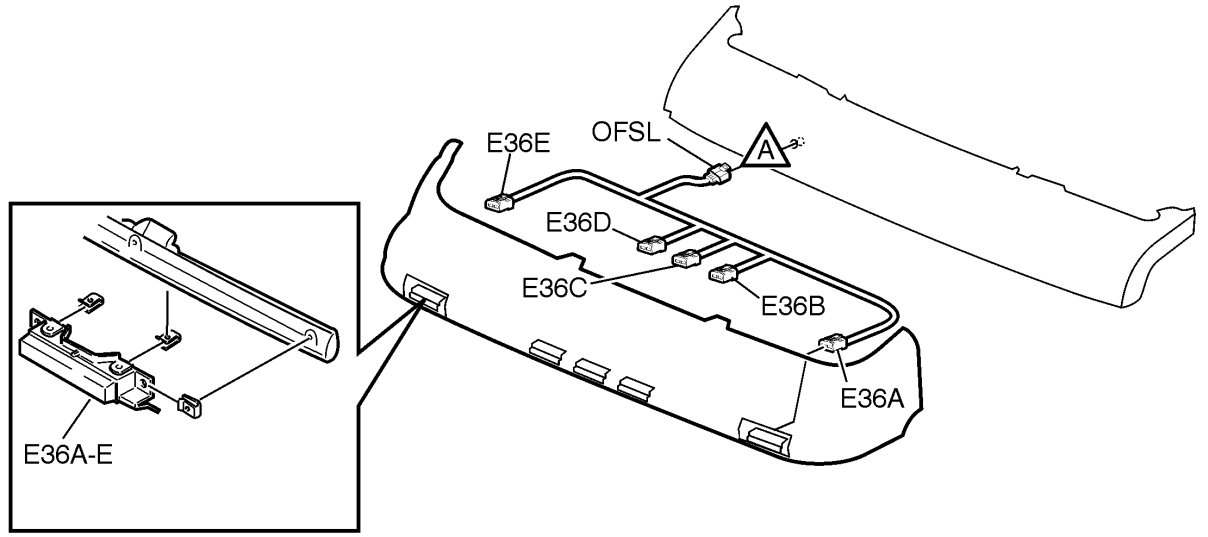




W3005924

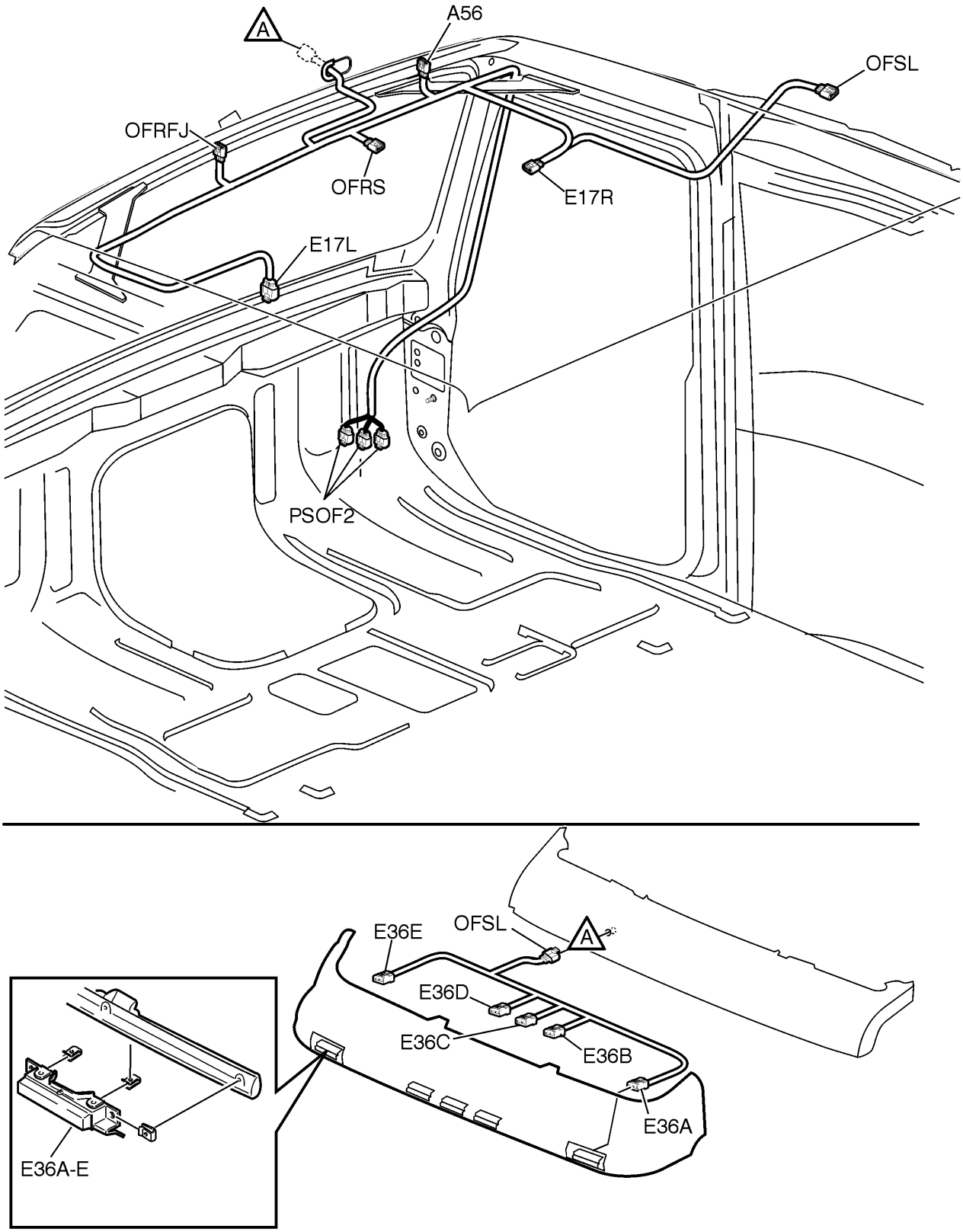
Sunvisor Harness (Daycab, VN430 and 630)



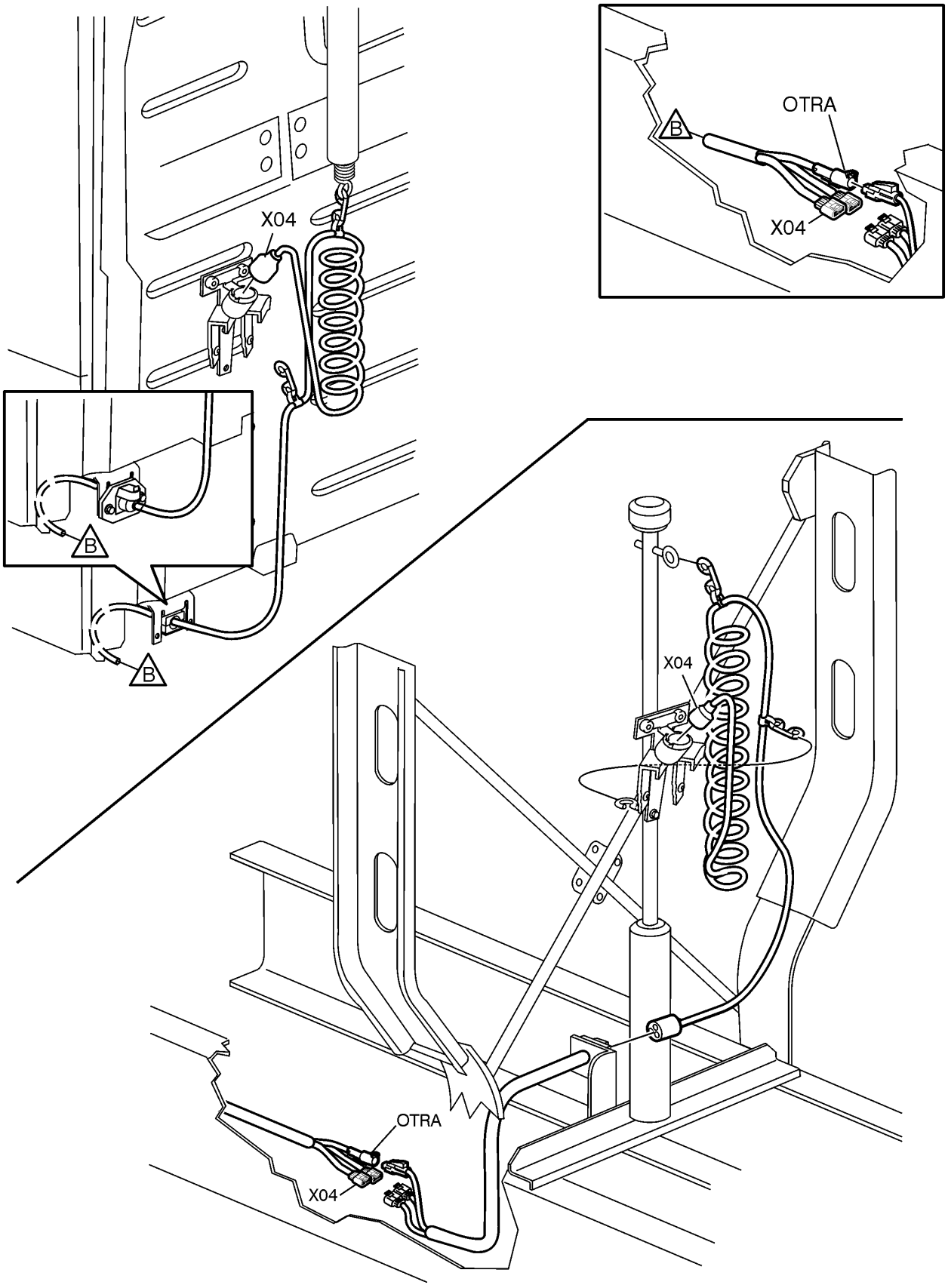


W3005925

Sunvisor Harness (VN670 and 780)

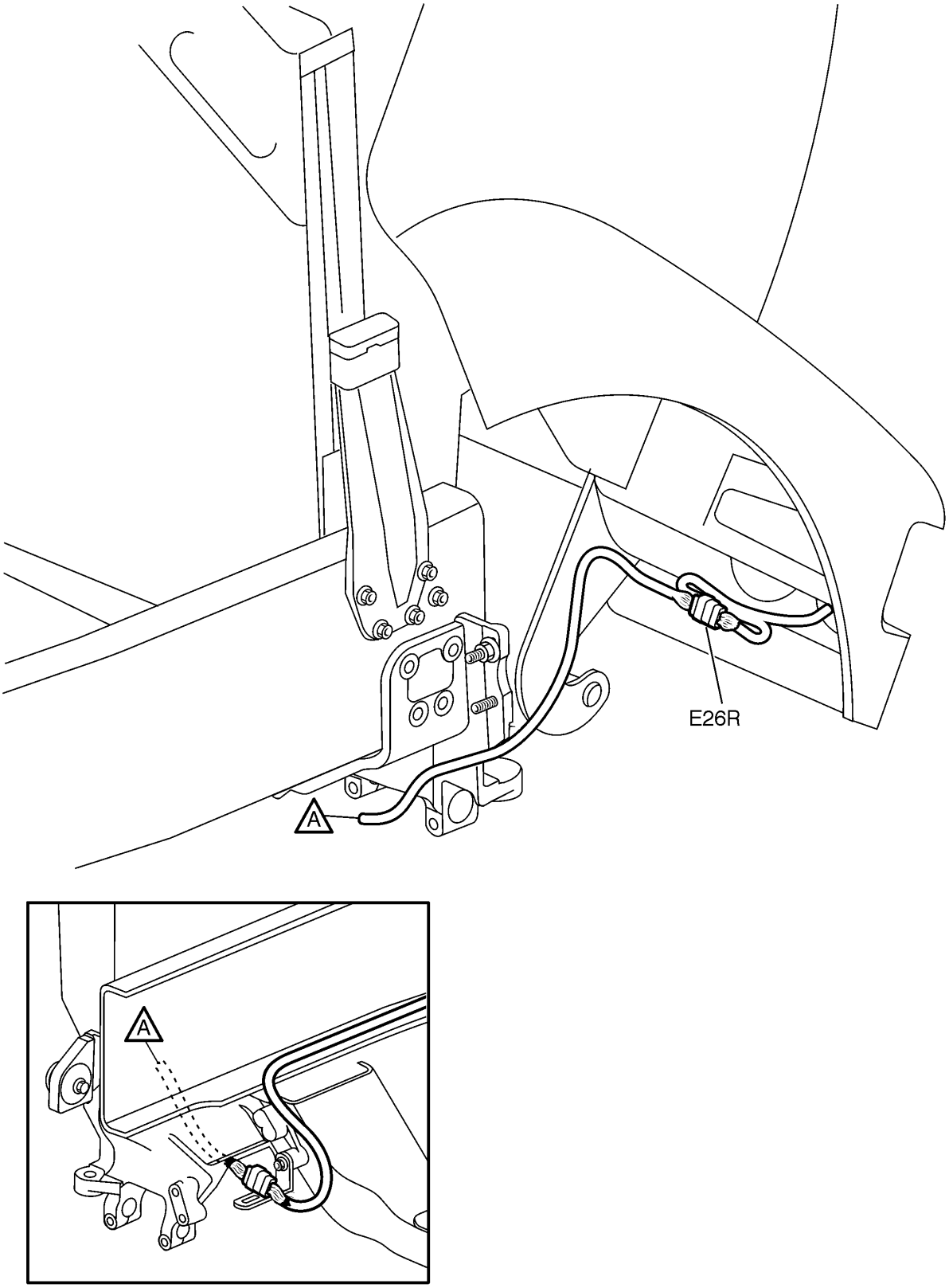


Trailer Cable Connections



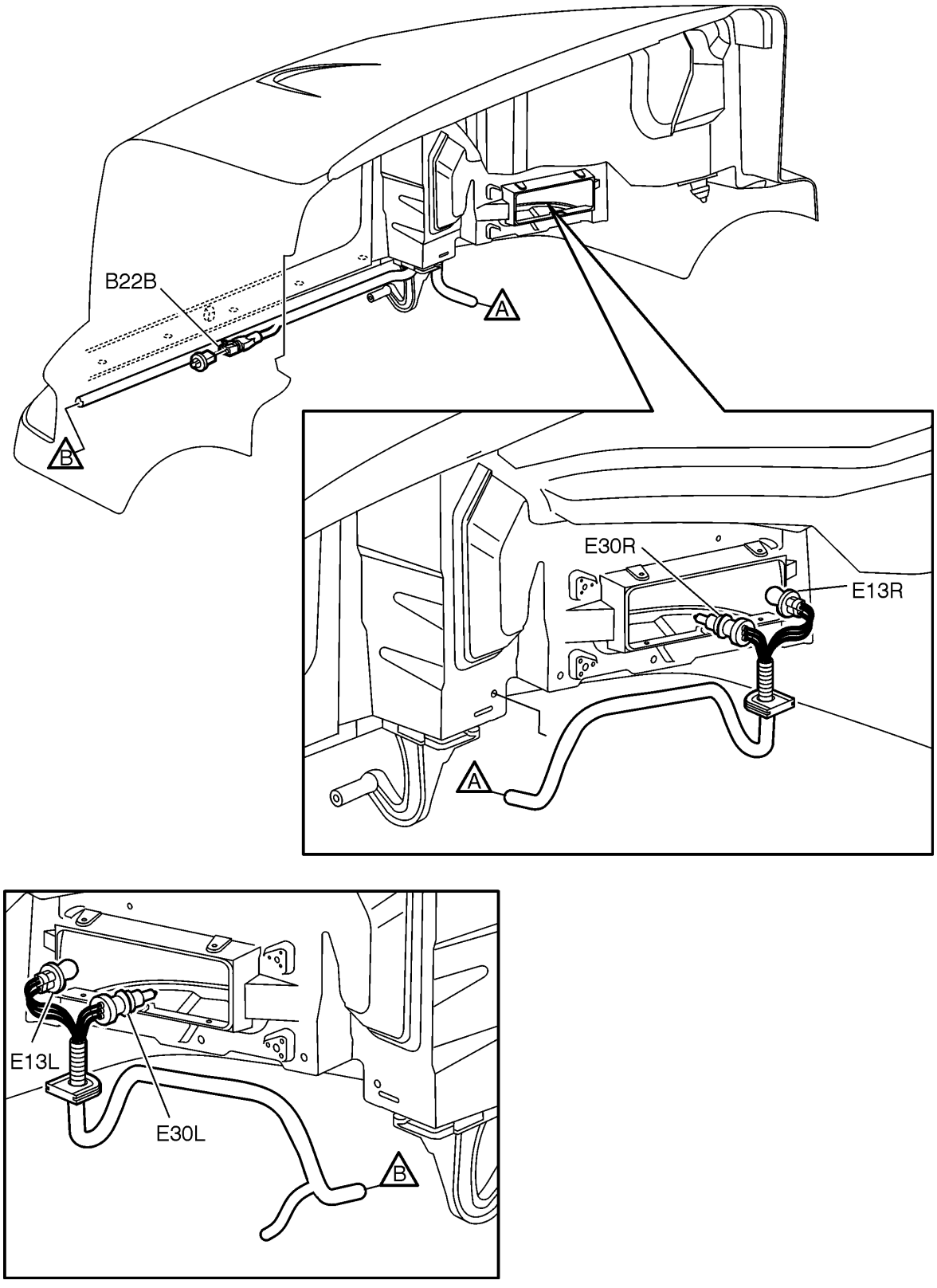
W3005922

Headlight Harness, VHD



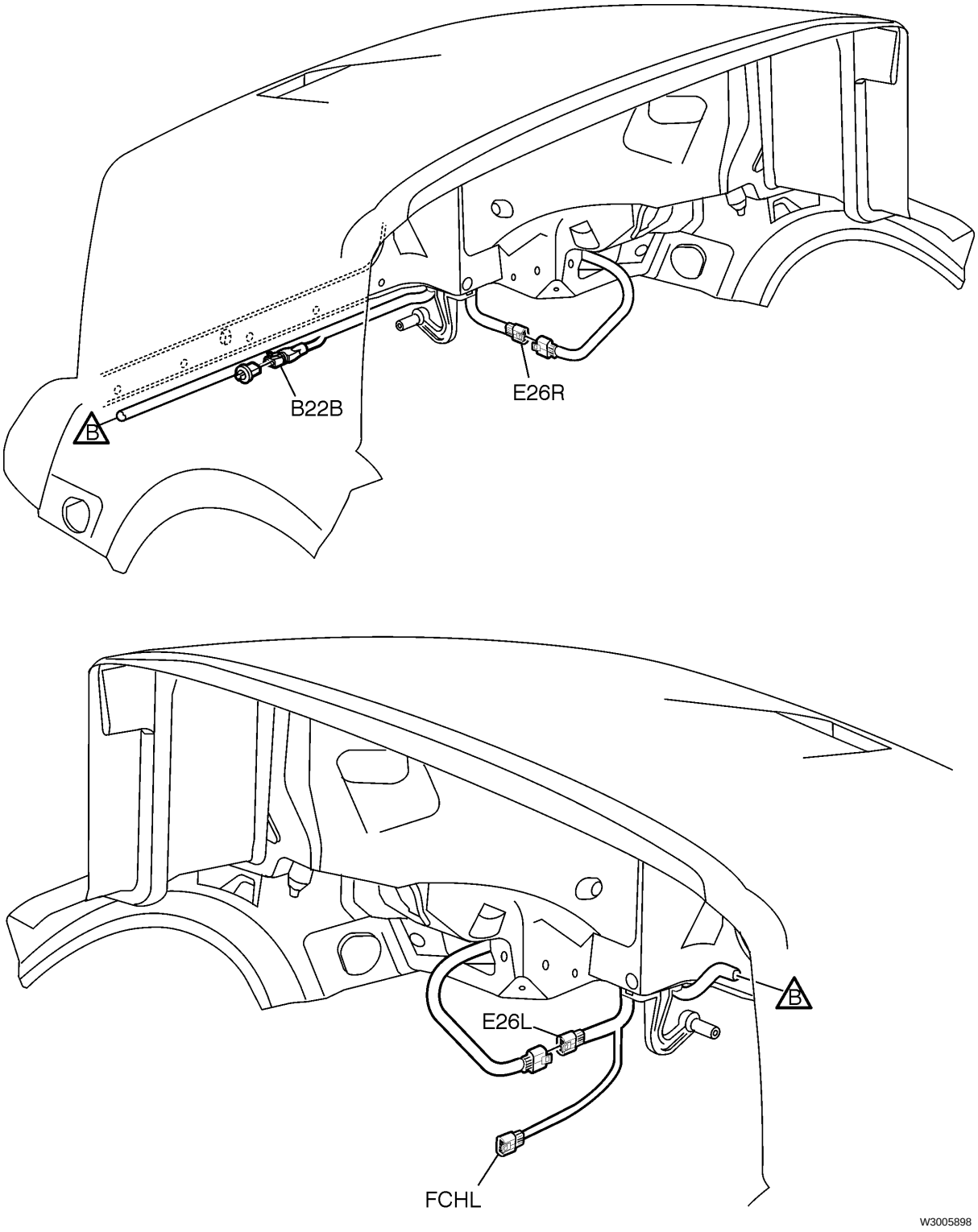
W3005918

Headlight Harness, VNM

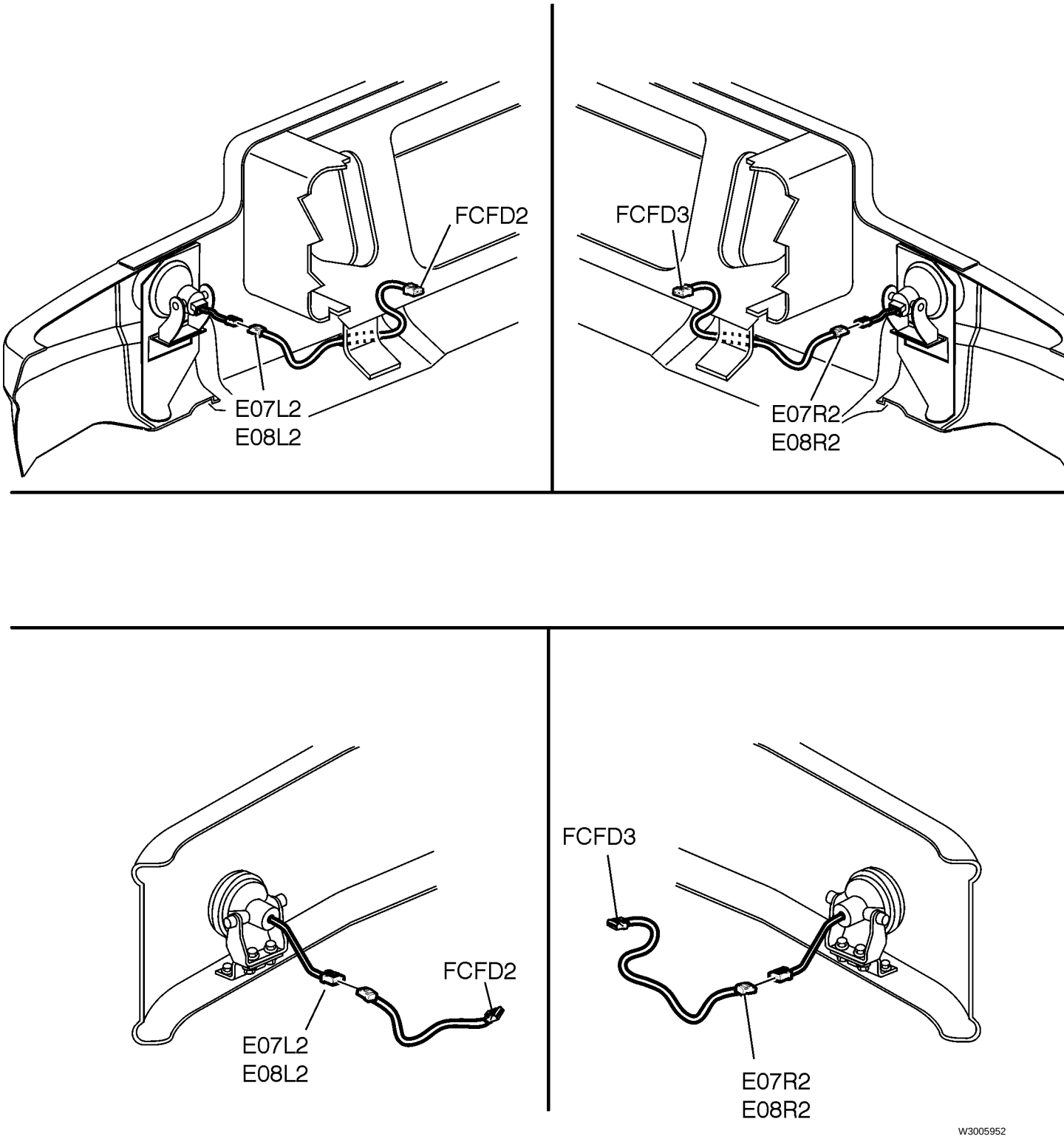


W3005901

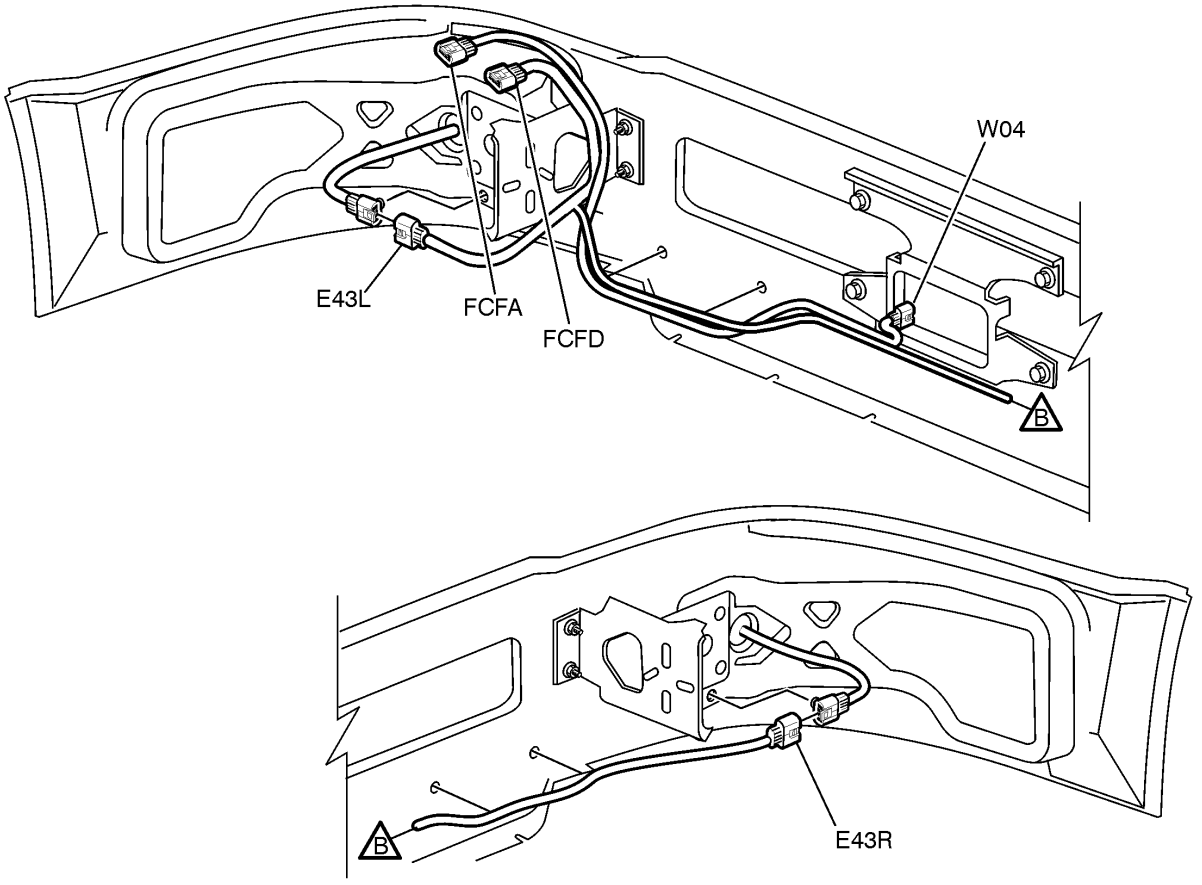
Headlight Harness, VNL

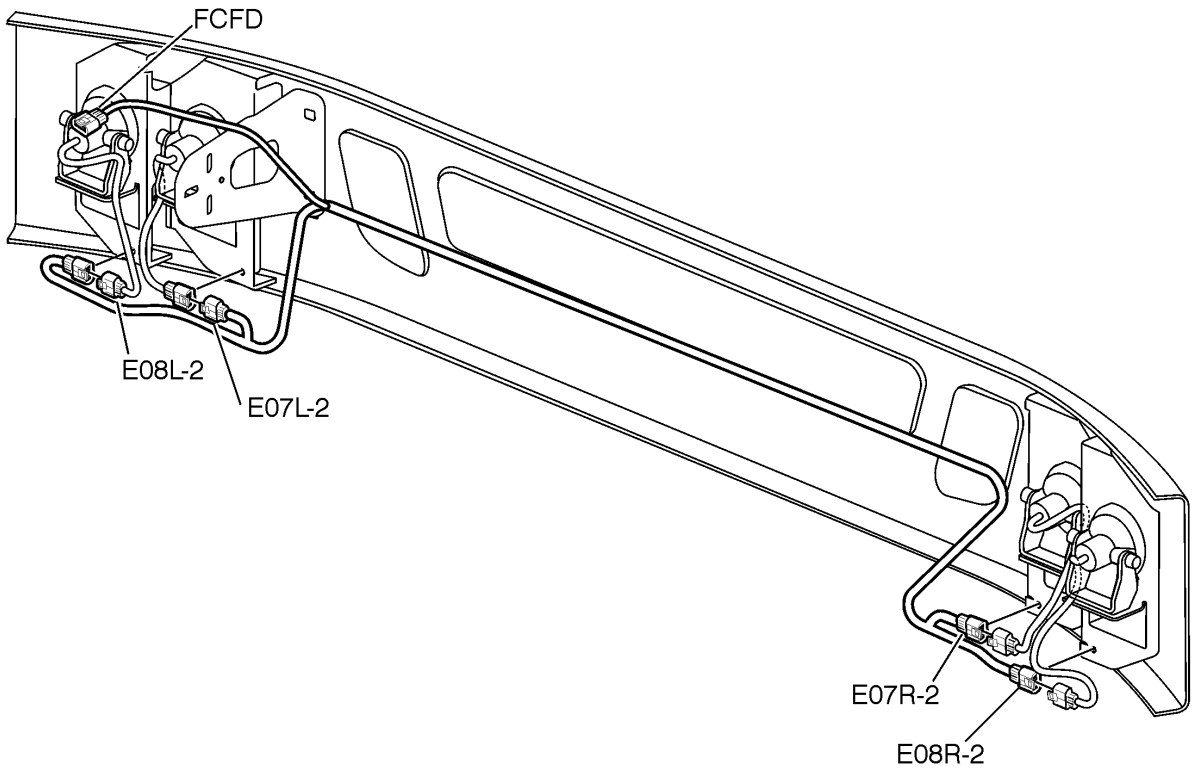


Fog and Driving Lights, VHD



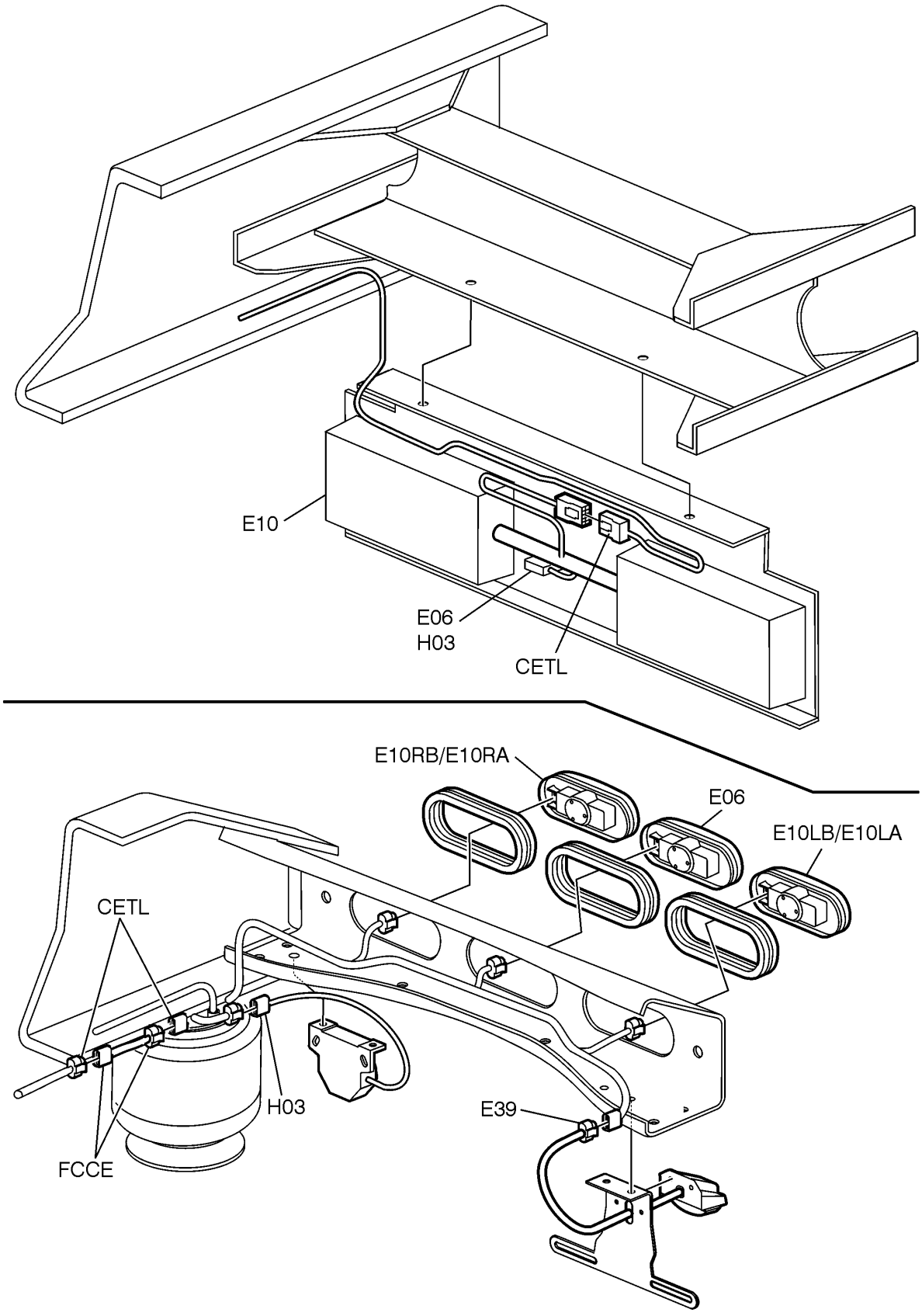
Fog and Driving Lights, VNL and VNM



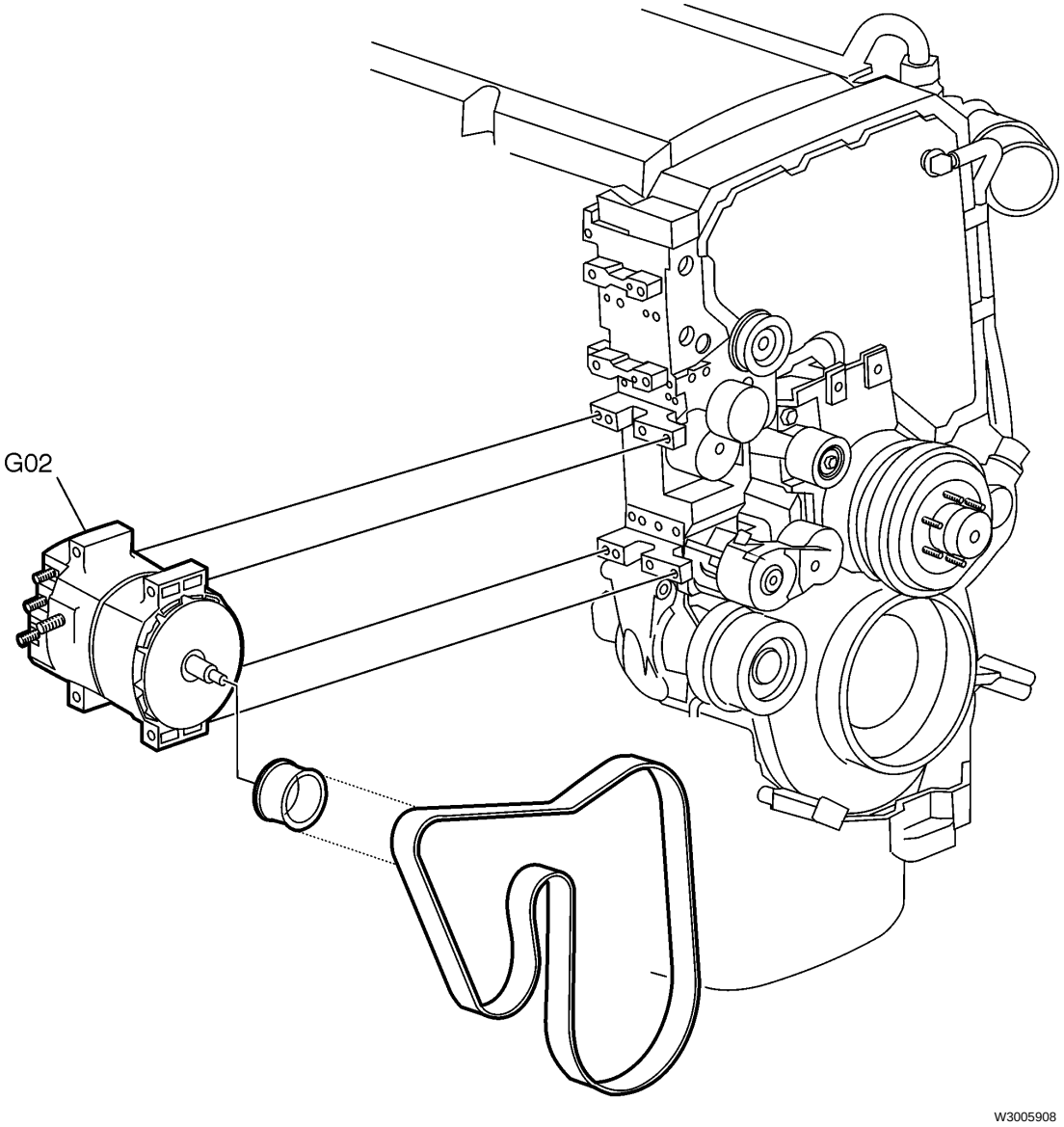


W3005933

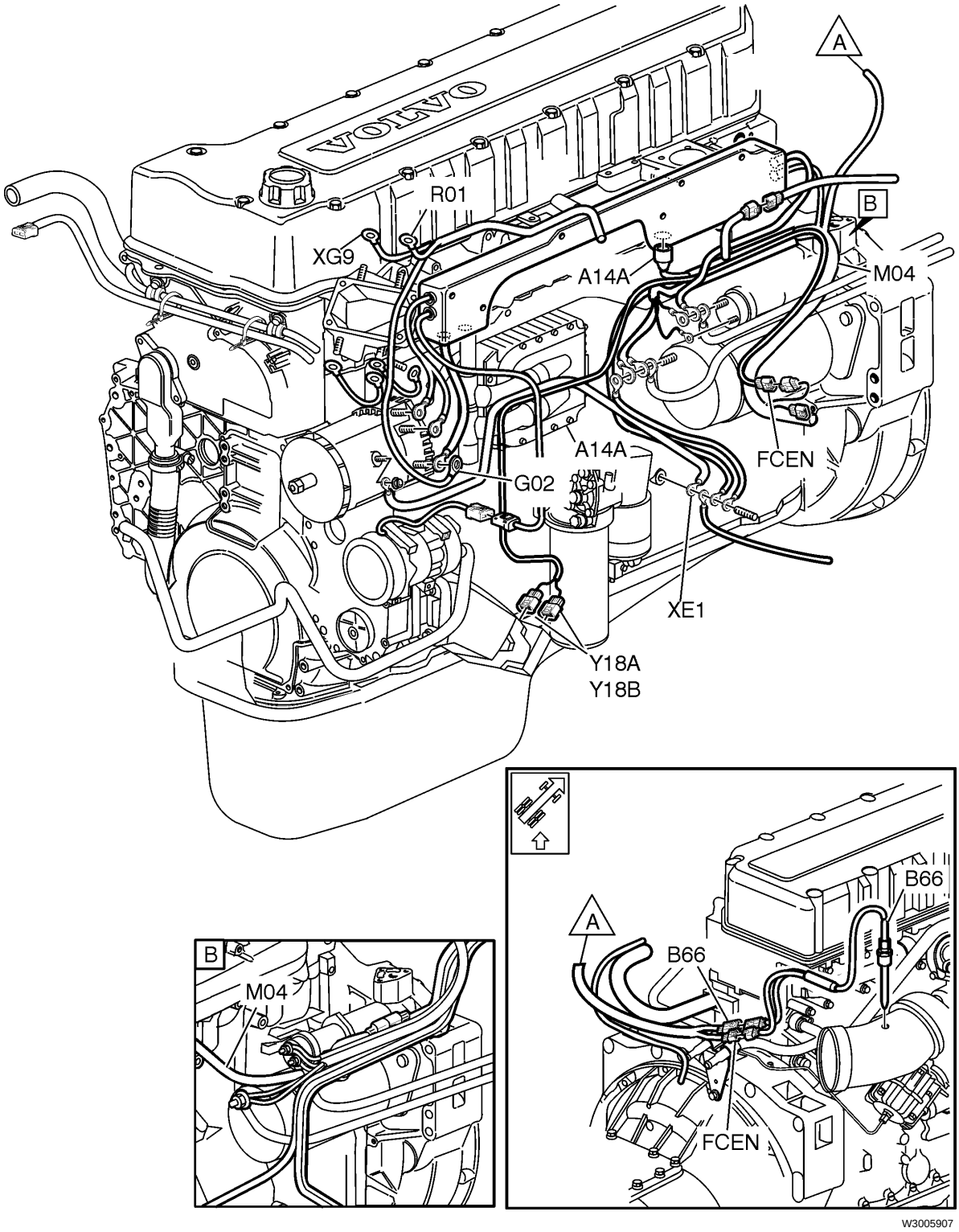
Tail lights


E10
E06
H03
CETL
E10RB/E10RA
E06
E10LB/E10LA
CETL
H03
E39
FCCE
W3005920

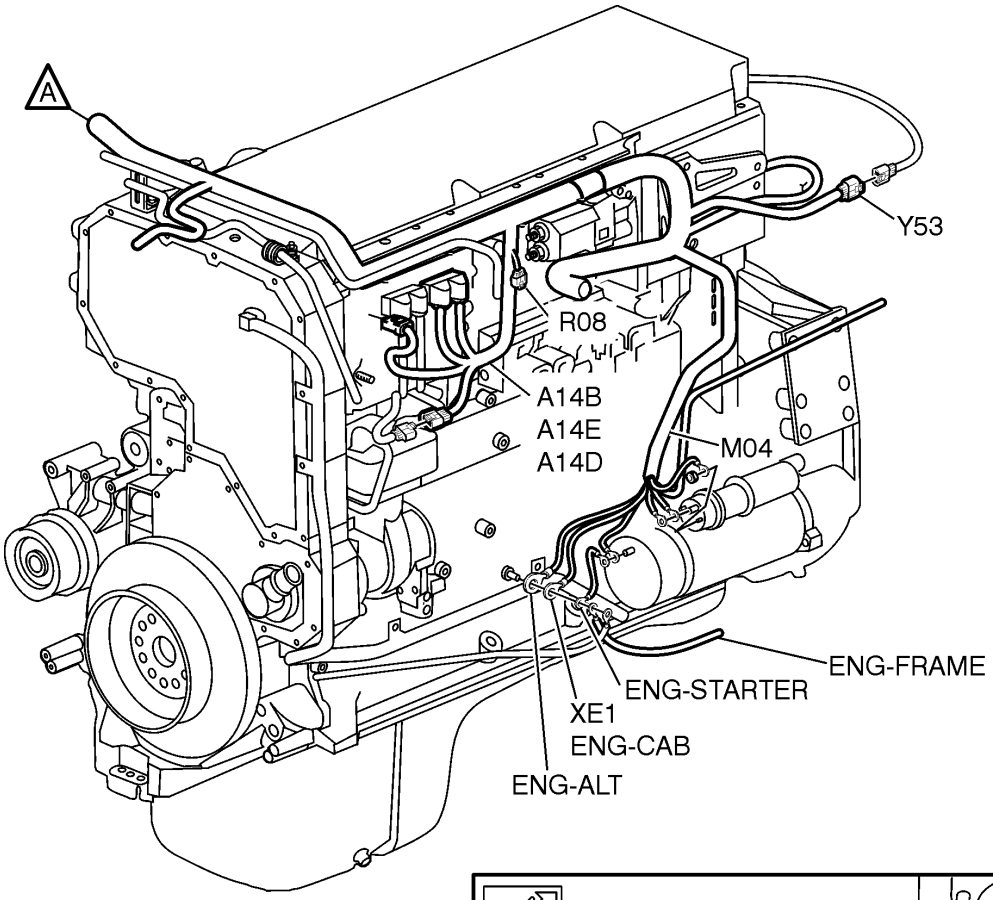
Alternator (typical view)

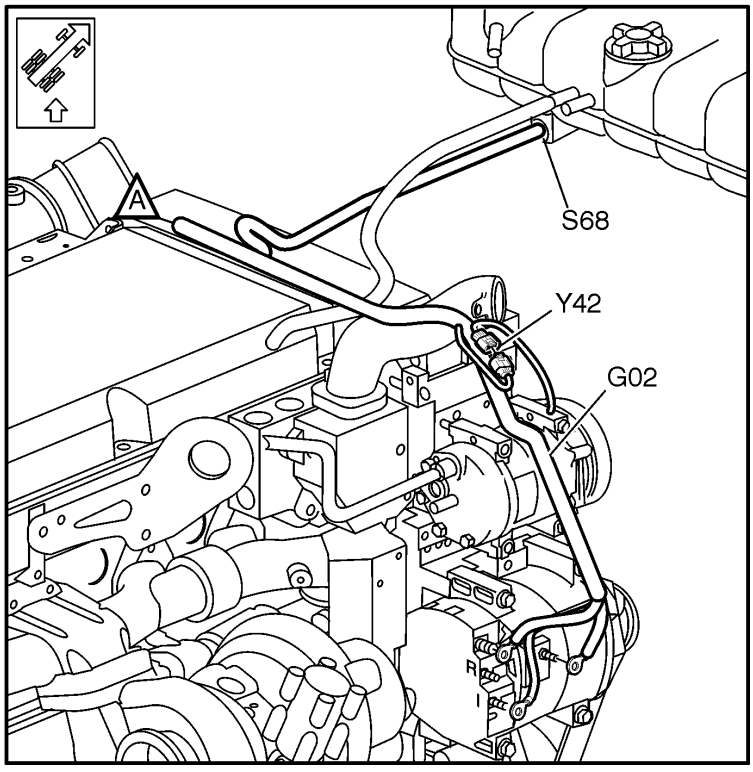


Engine, Volvo D12D



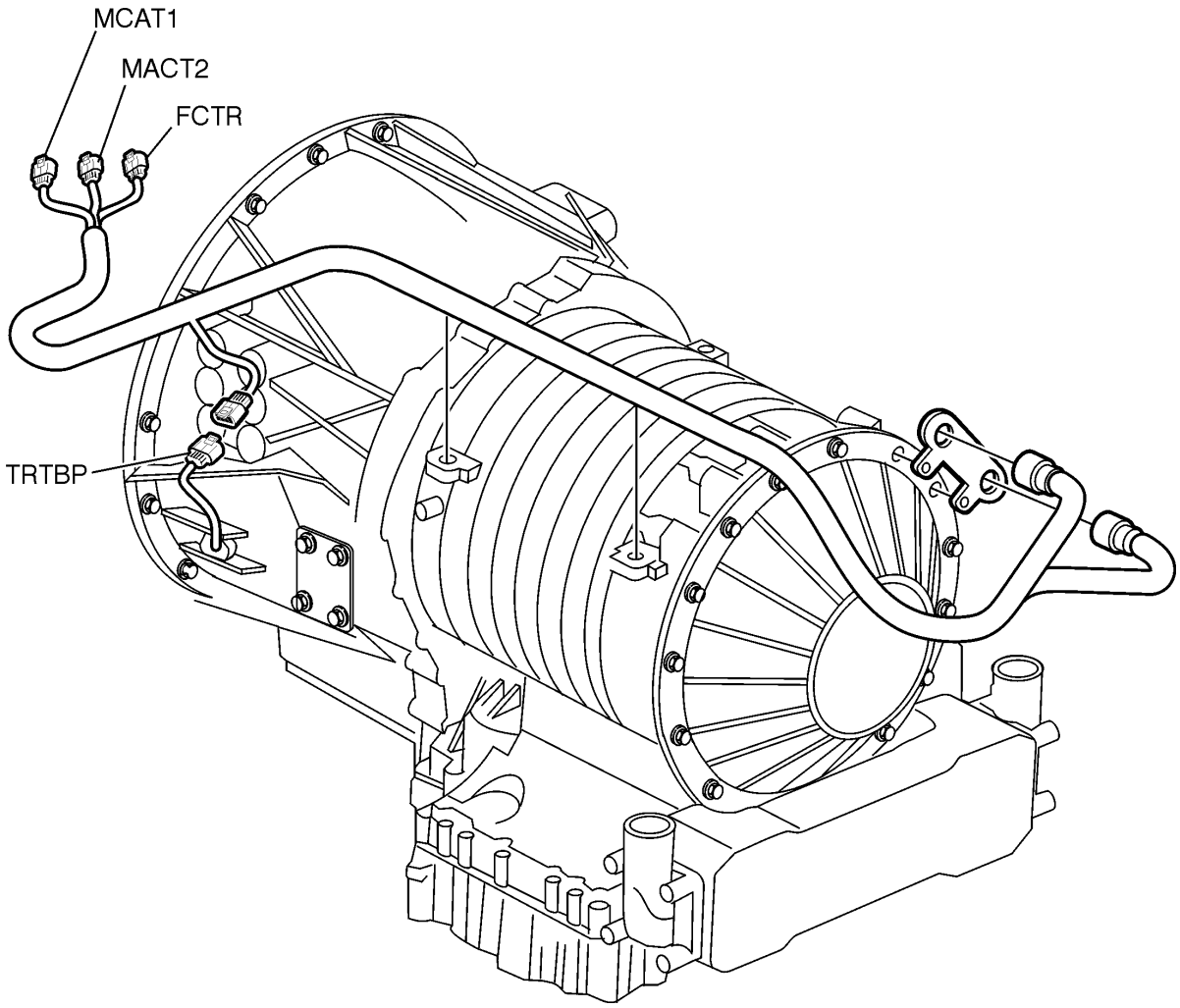
Engine, Cummins ISX



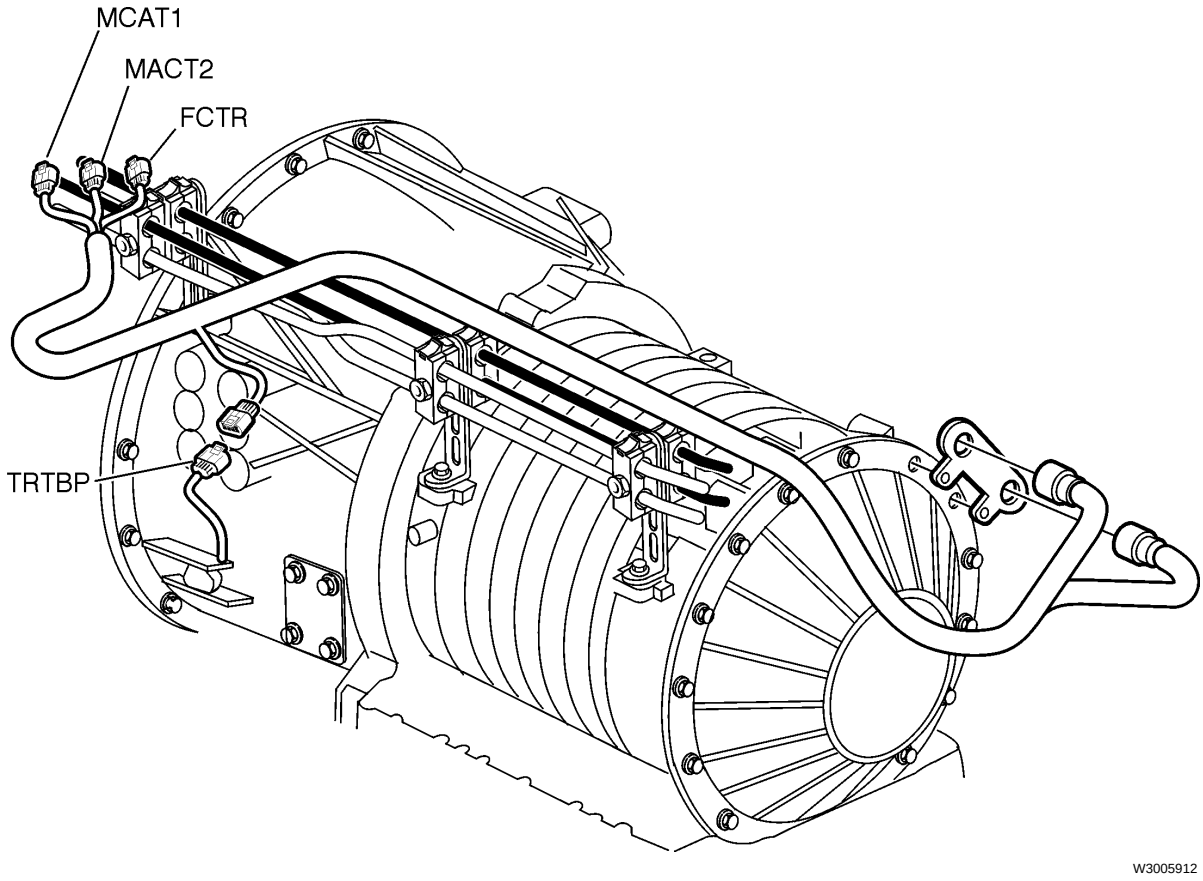


W3005894

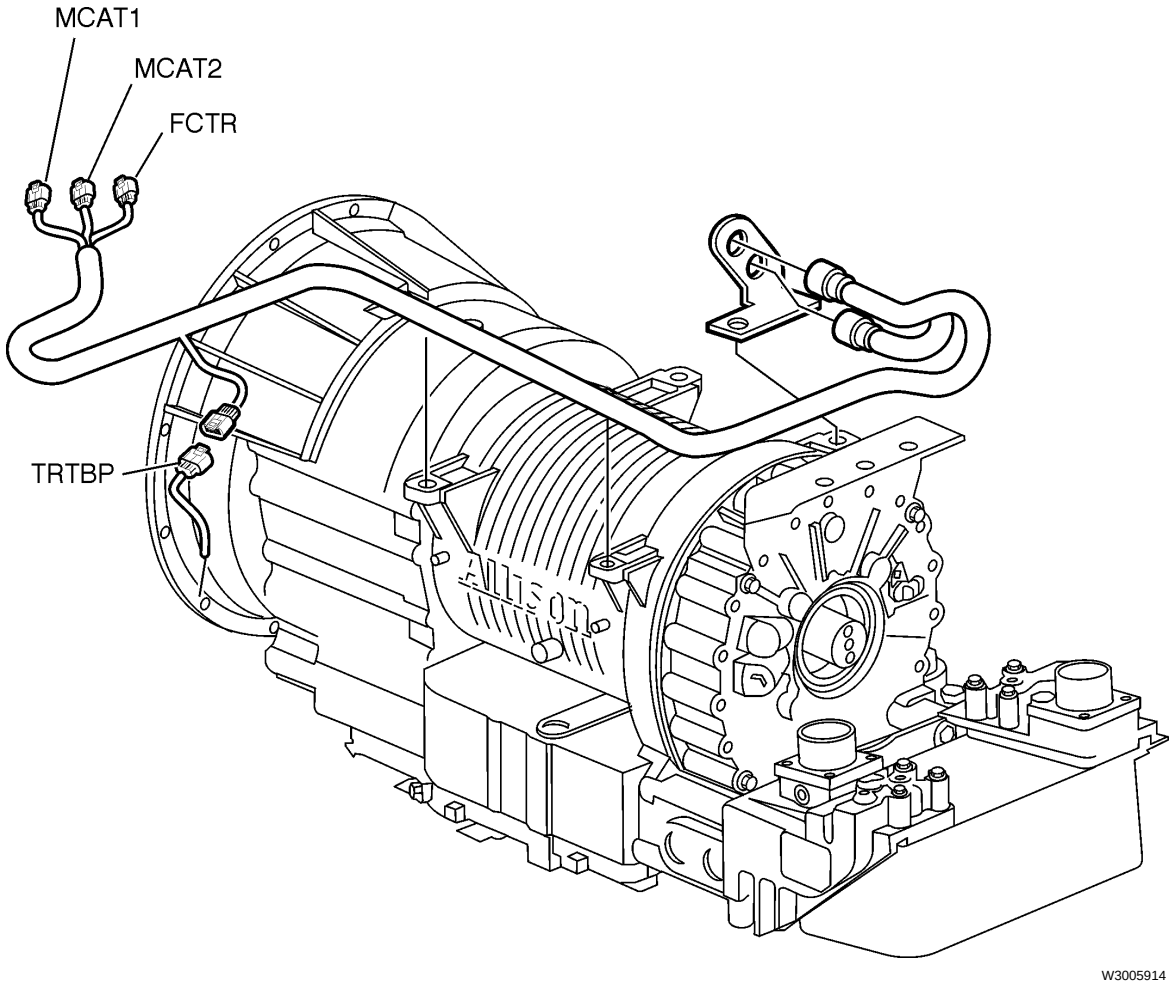
Allison HD Transmission, VHD (BBOX-LF)



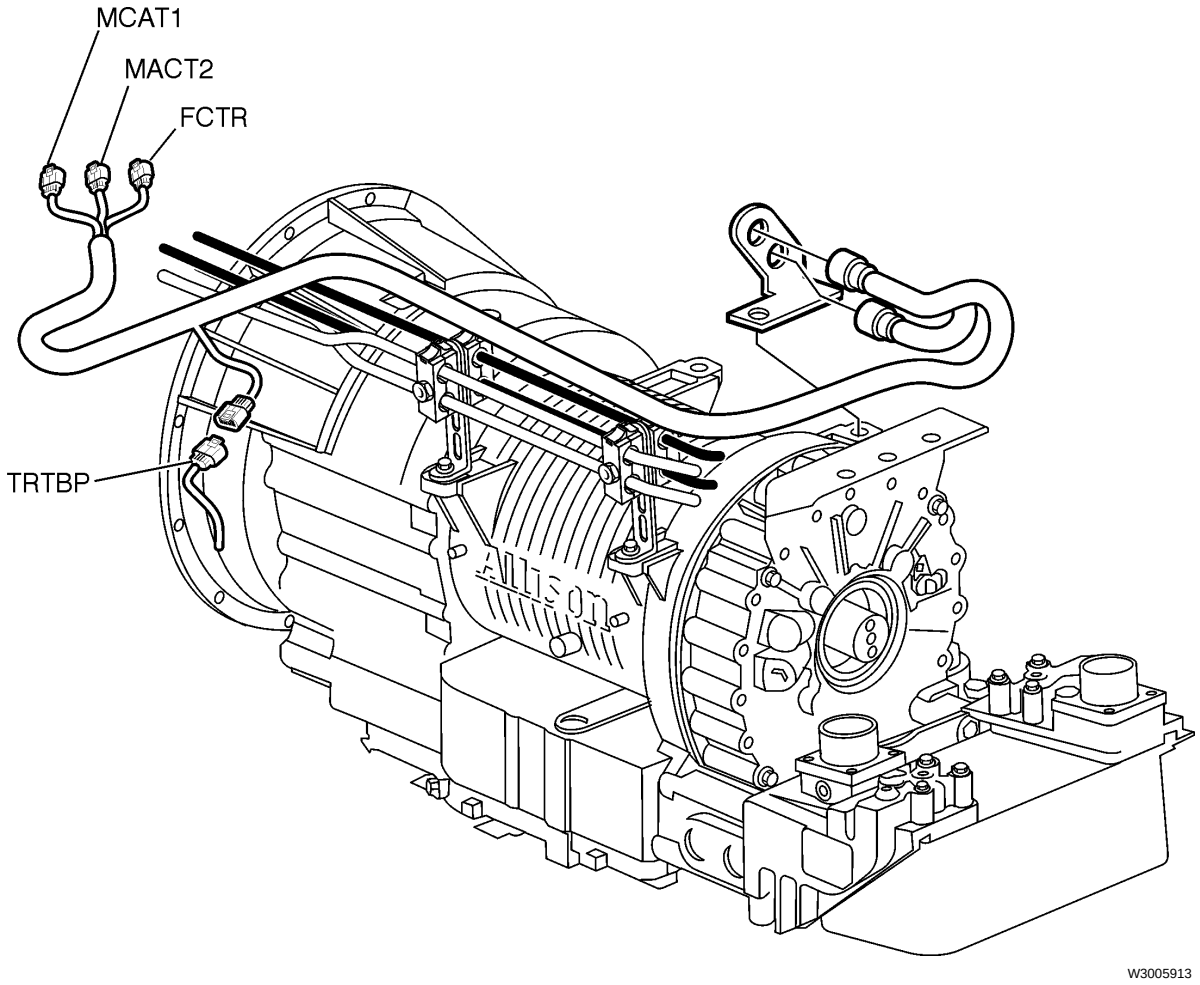
Allison HD Transmission, VHD (BBOX-LB/BBOX-RF)



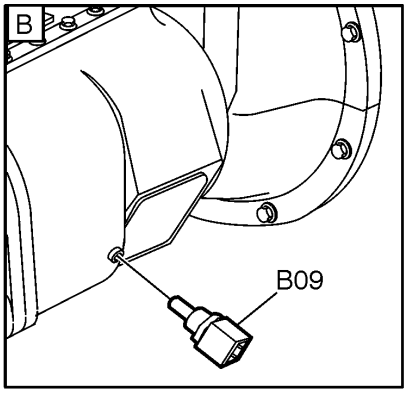
Allison MD Transmission, VHD (BBOX-LF)

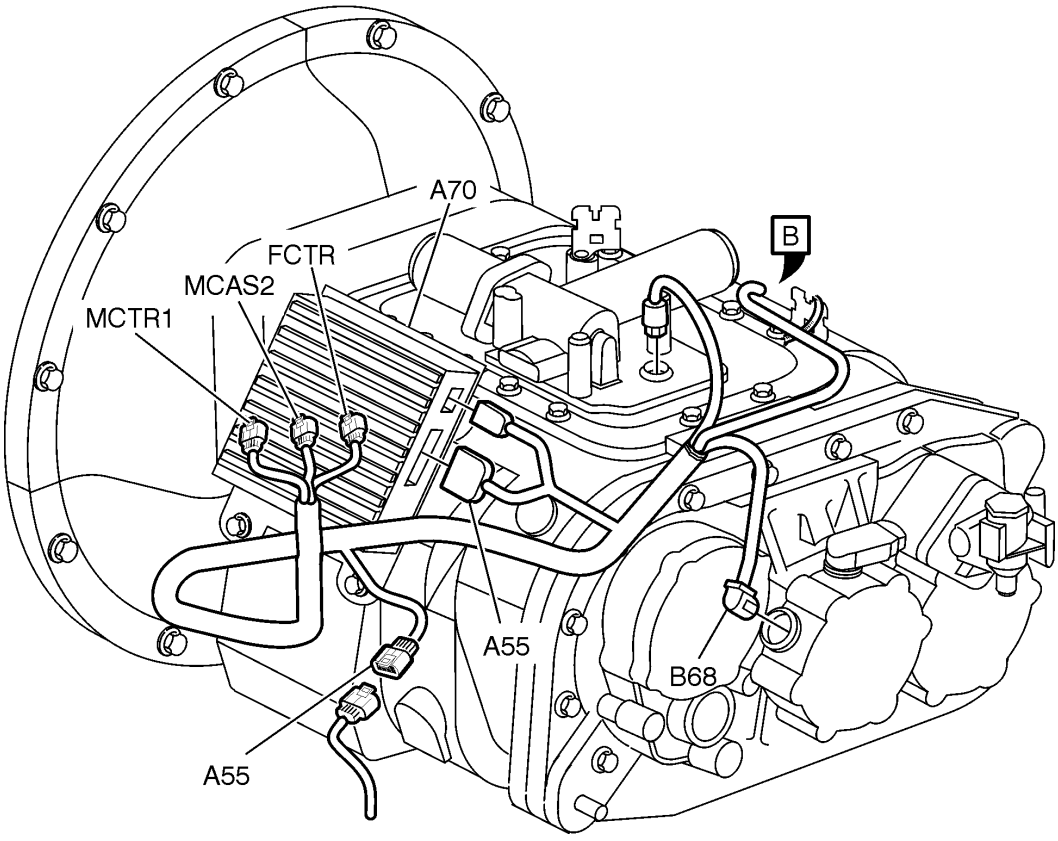


Allison MD Transmission, VHD (BBOX-LB/BBOX-RF)

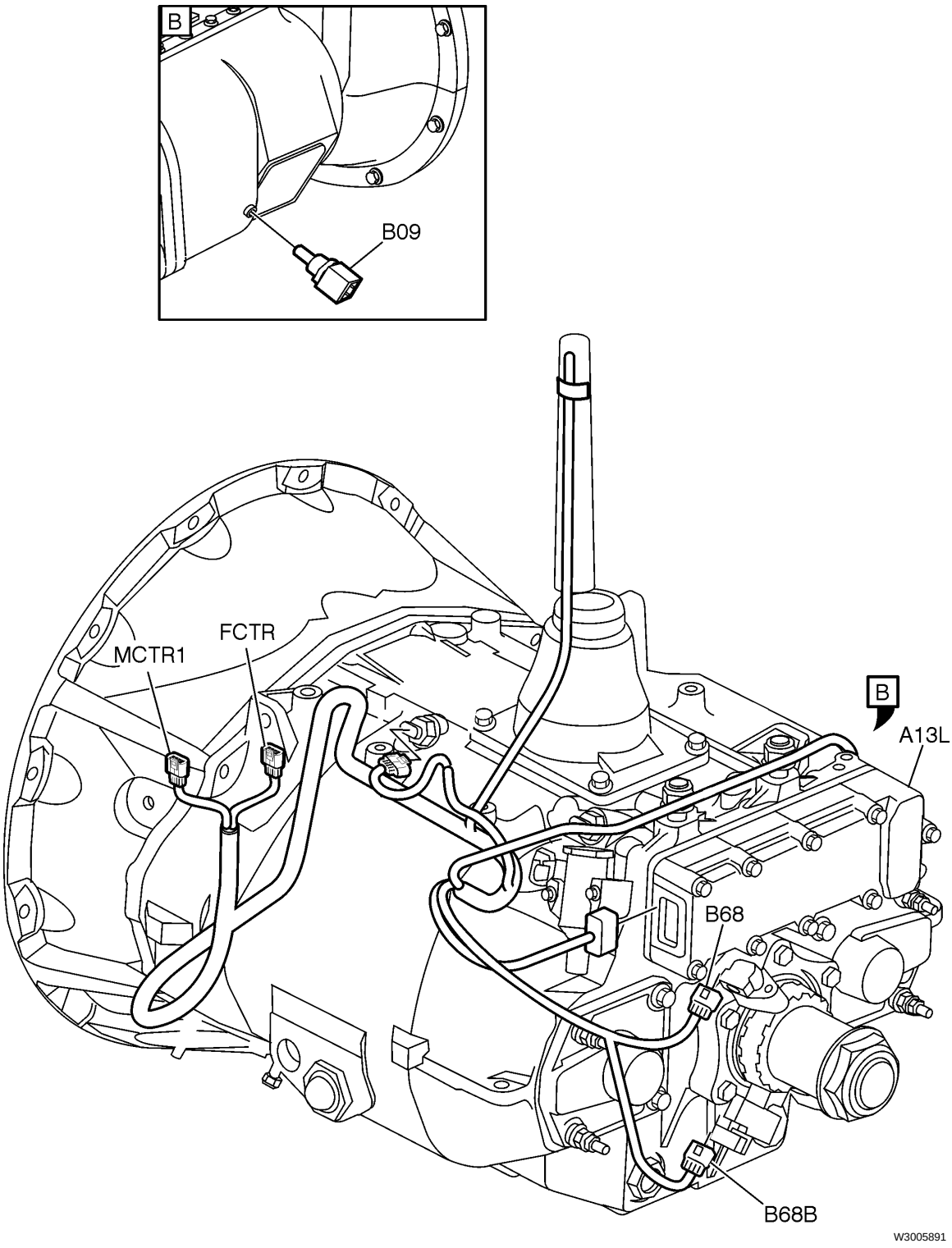


Eaton Autoshift II Transmission

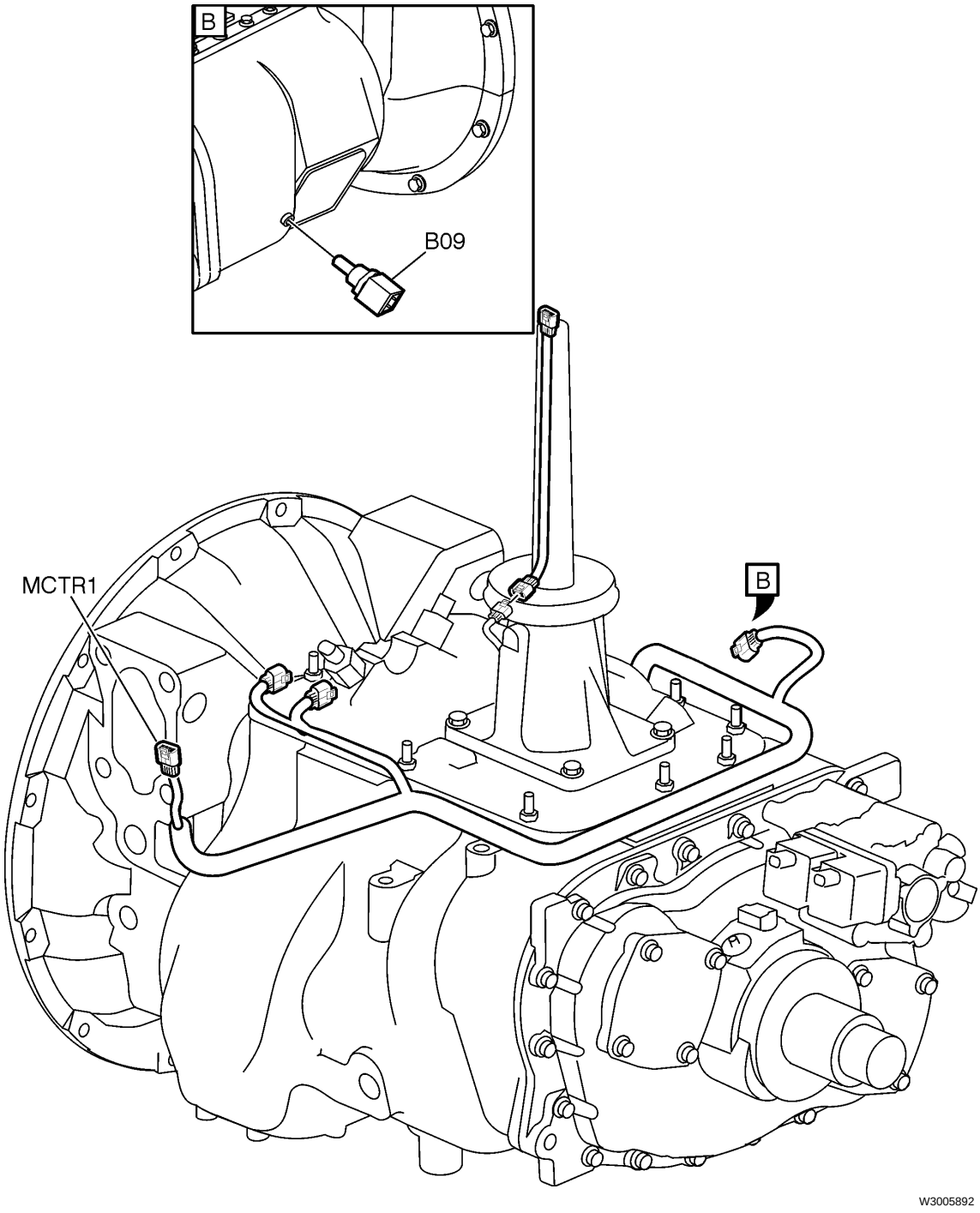




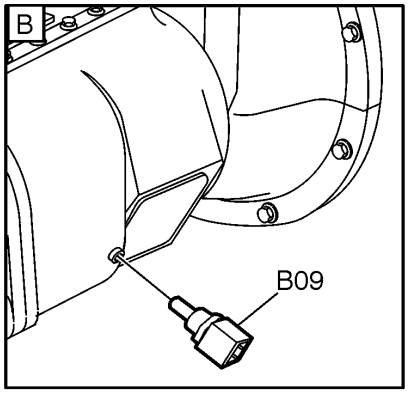
Meritor Lightning Transmission

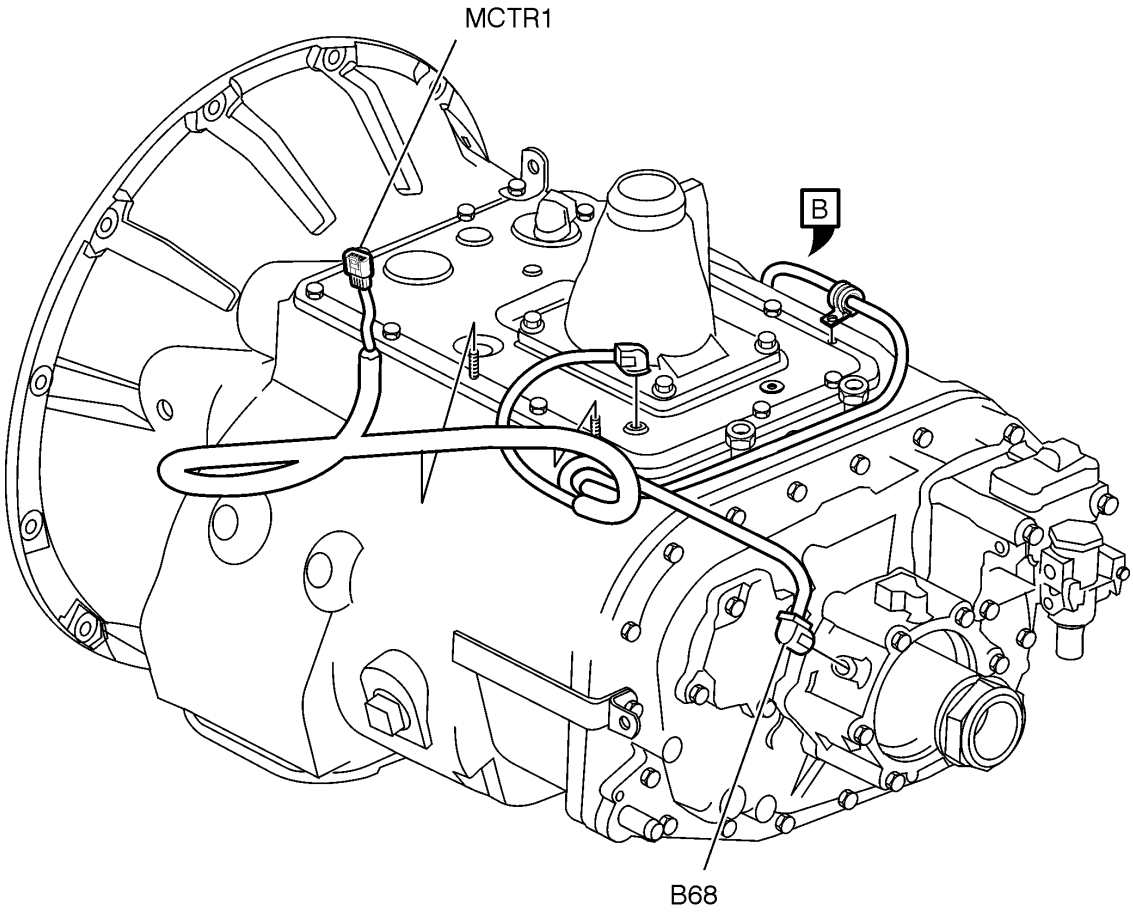


Meritor Transmission

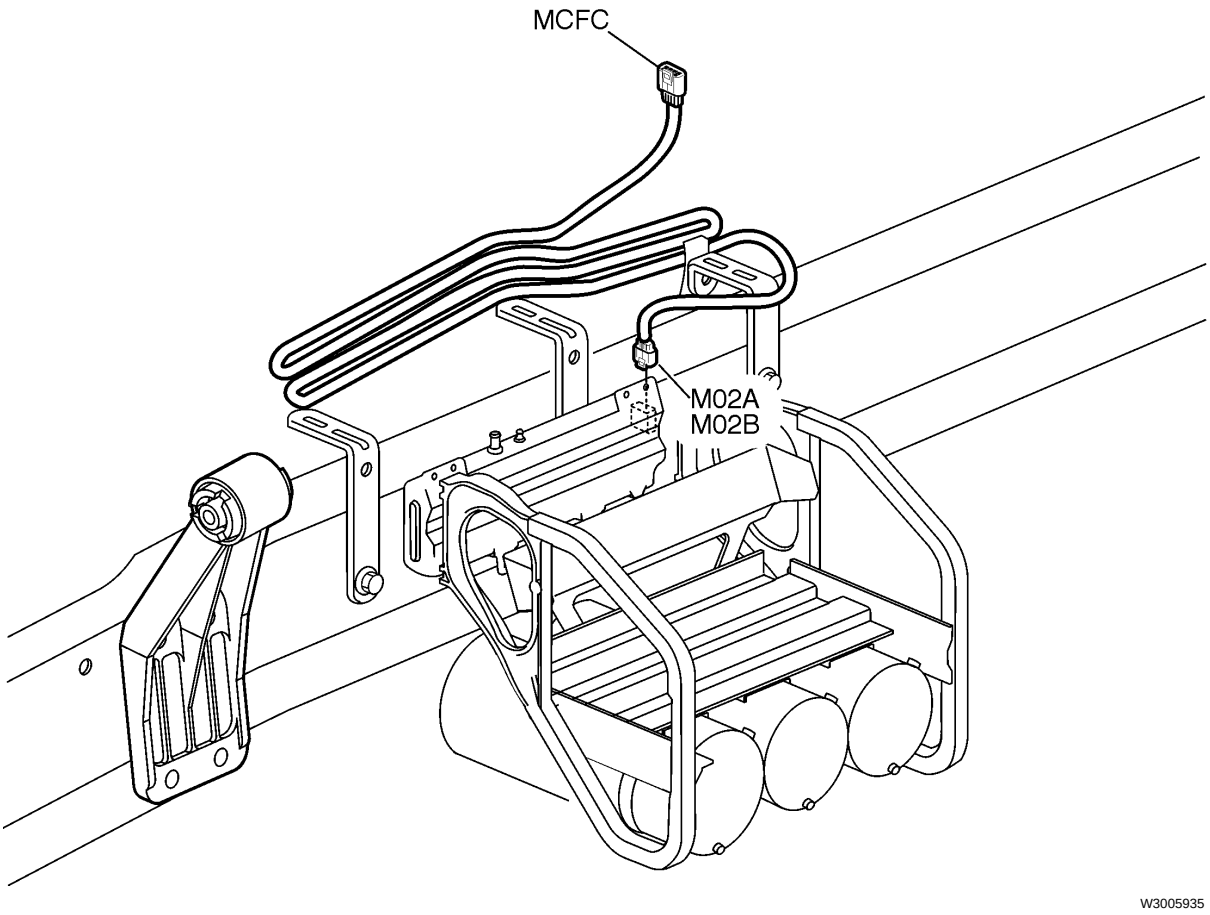


Fuller Transmission

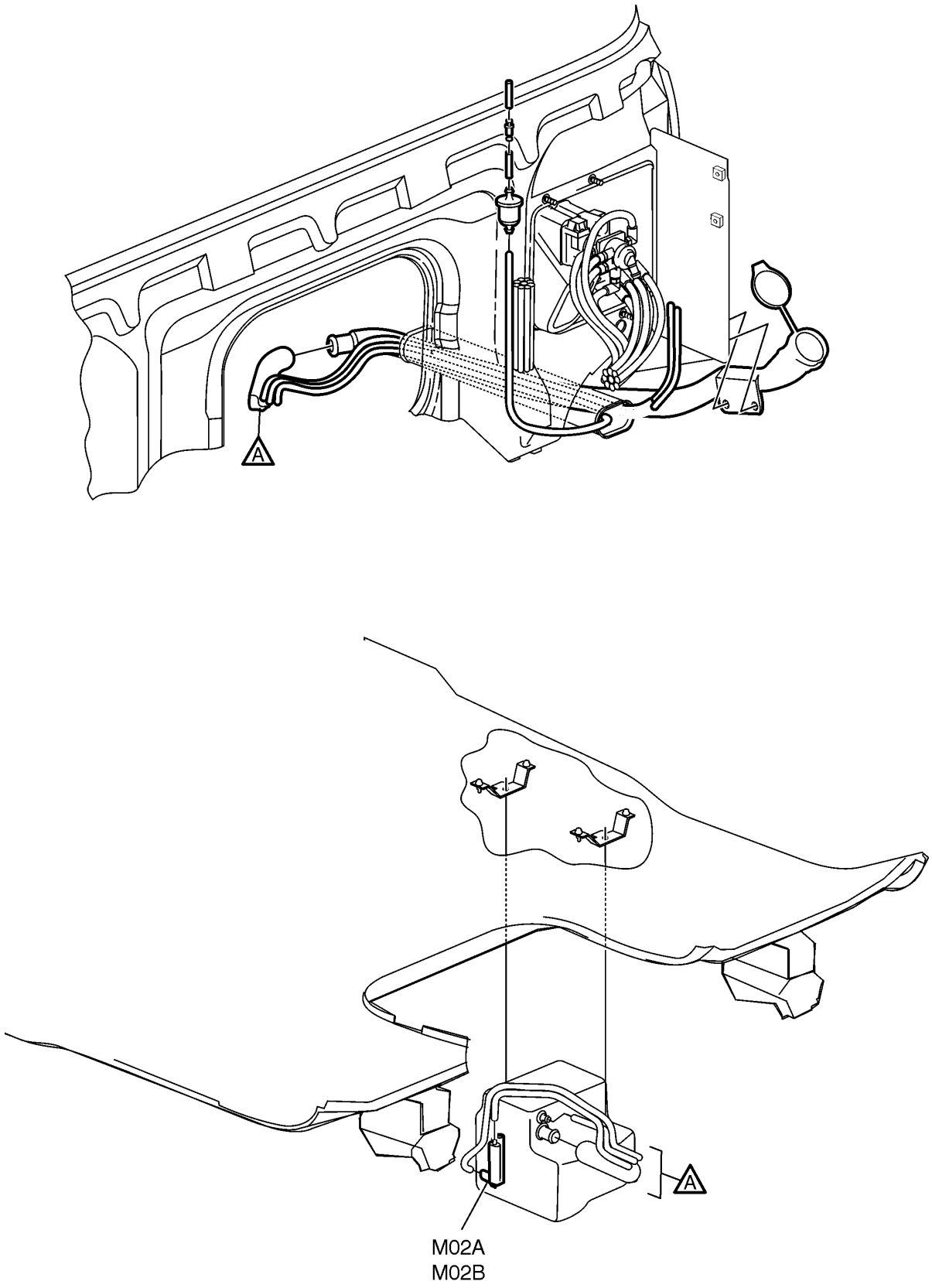




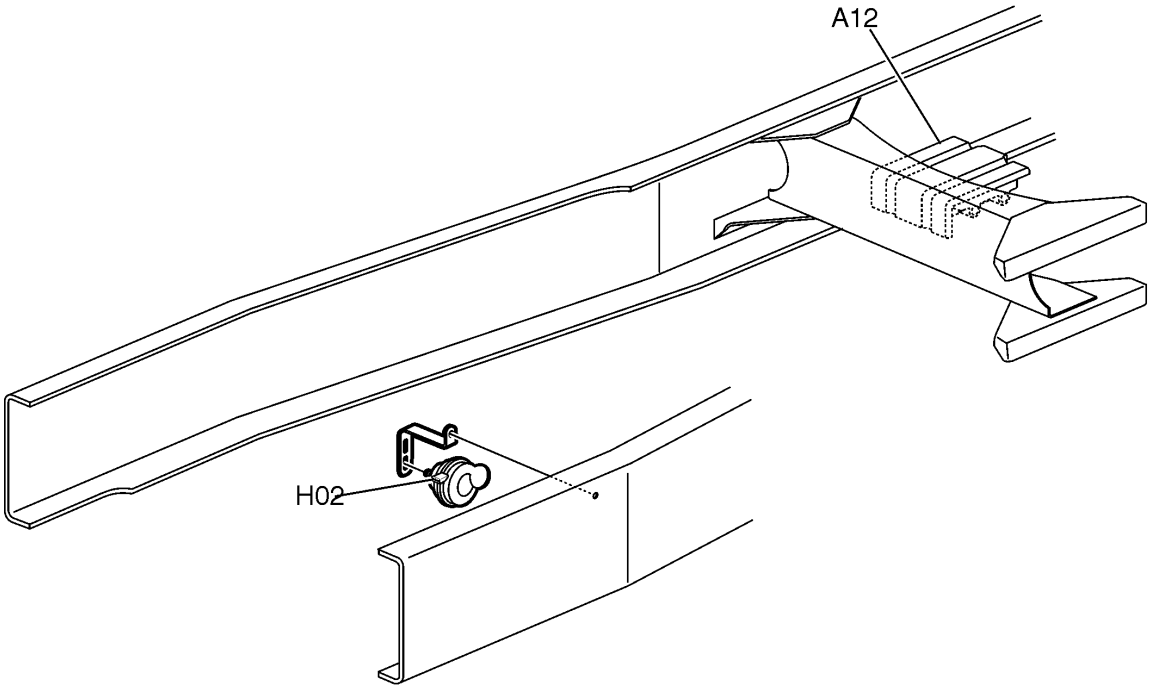
Washer Reservoir, VN



Washer Reservoir, VHD

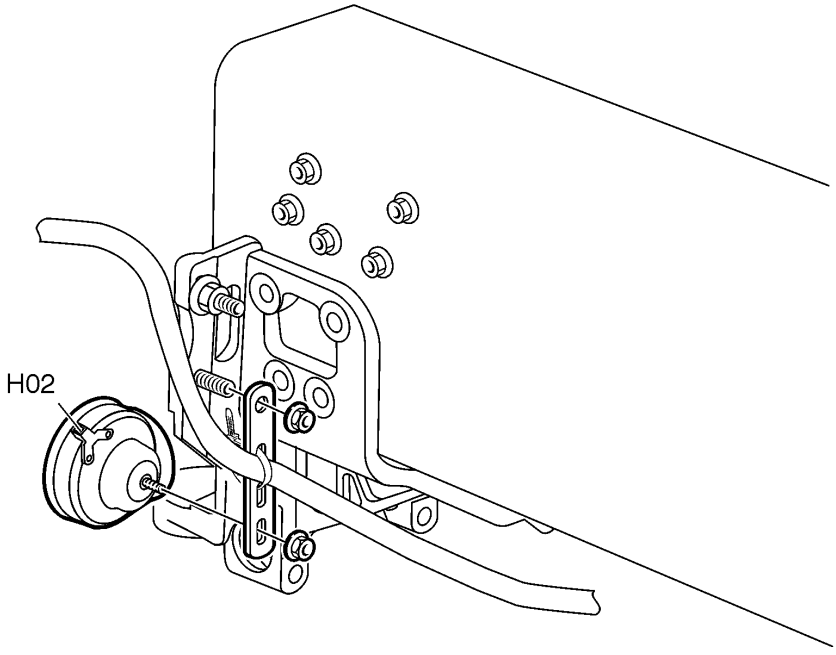


Horn

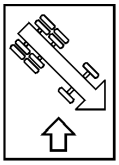


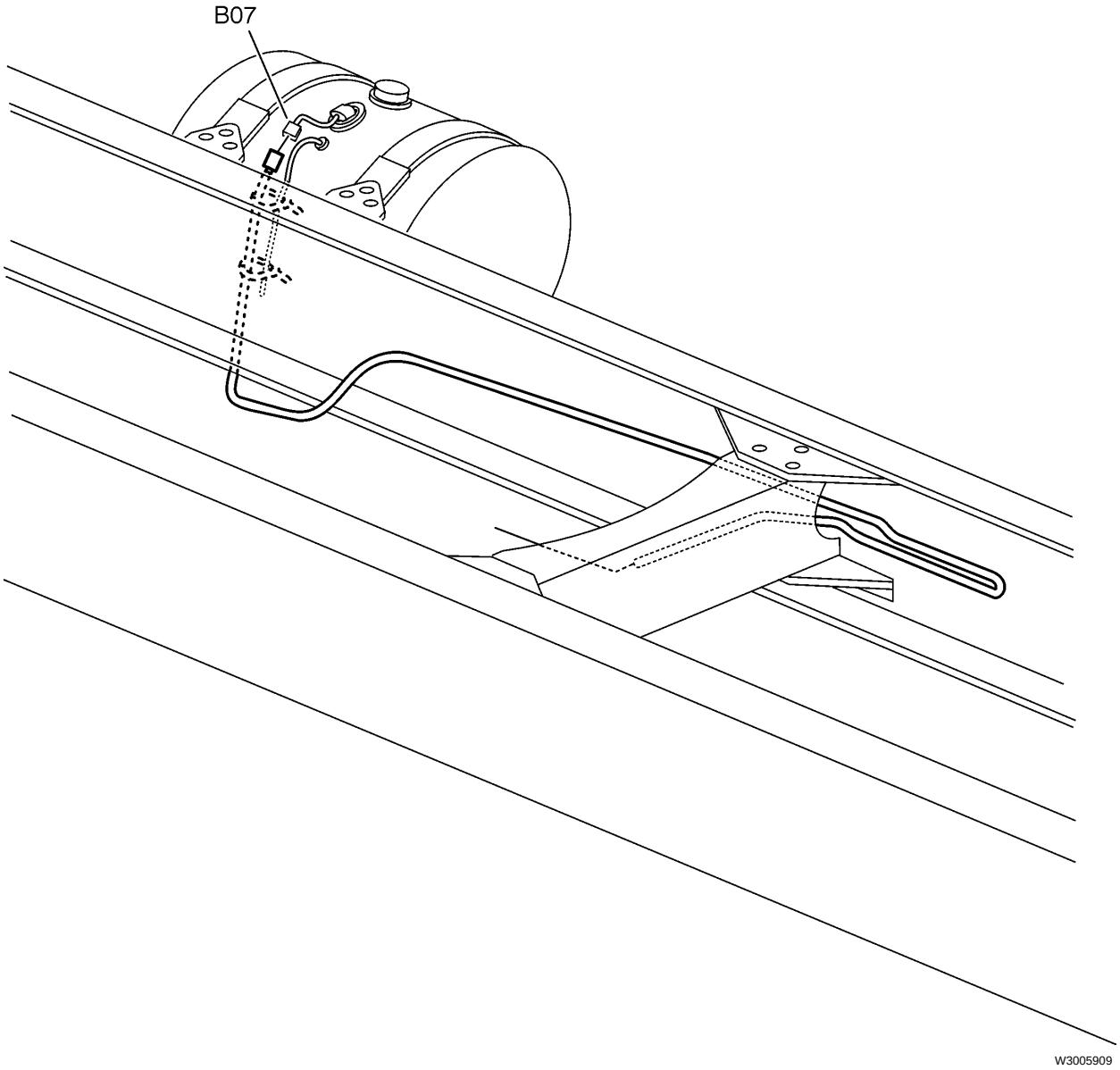
VN

VHD

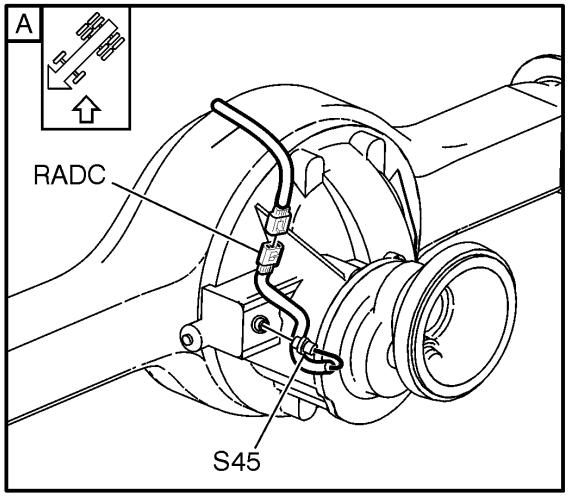


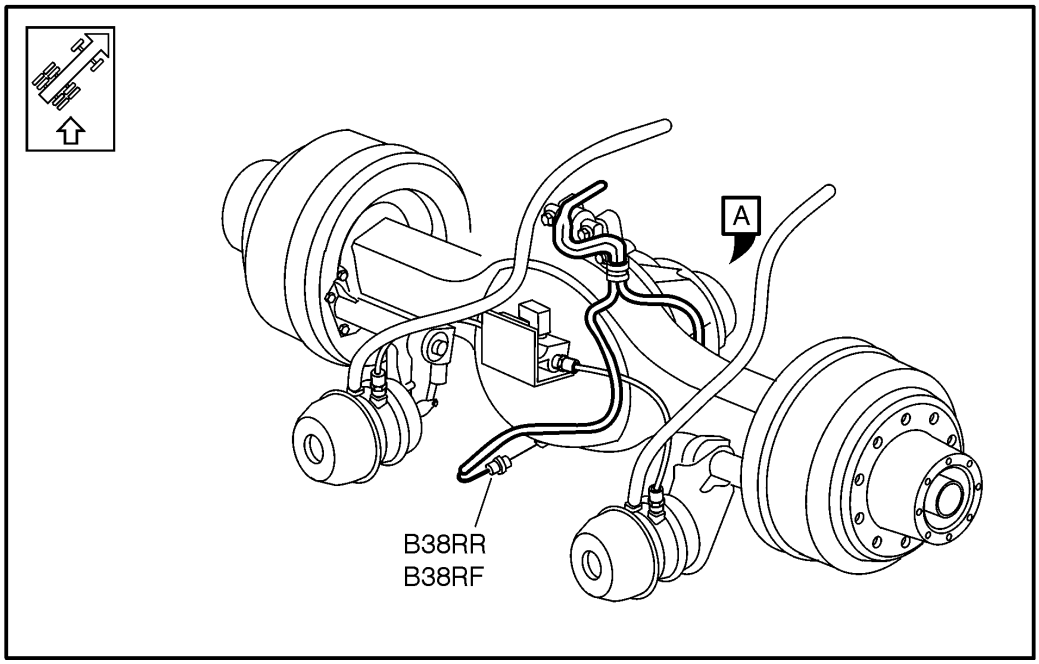
Fuel Level Sensor





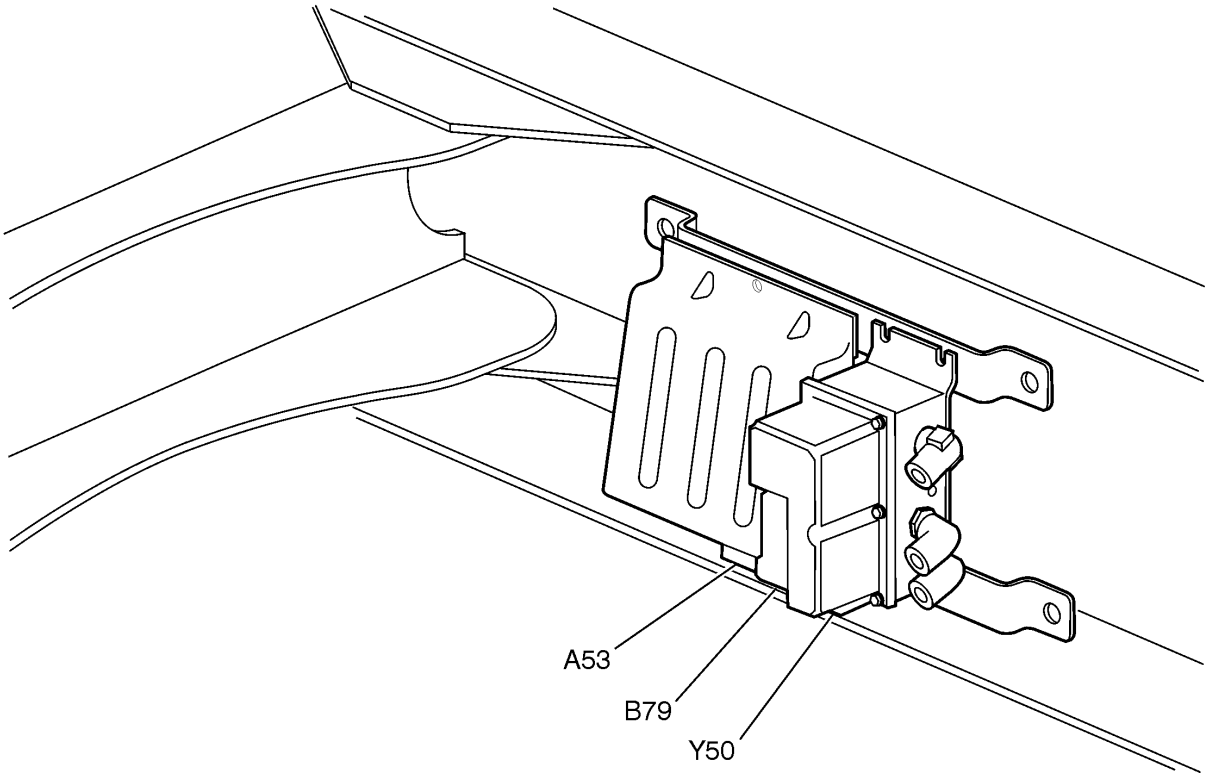
Differential Lock / Axle Temperature





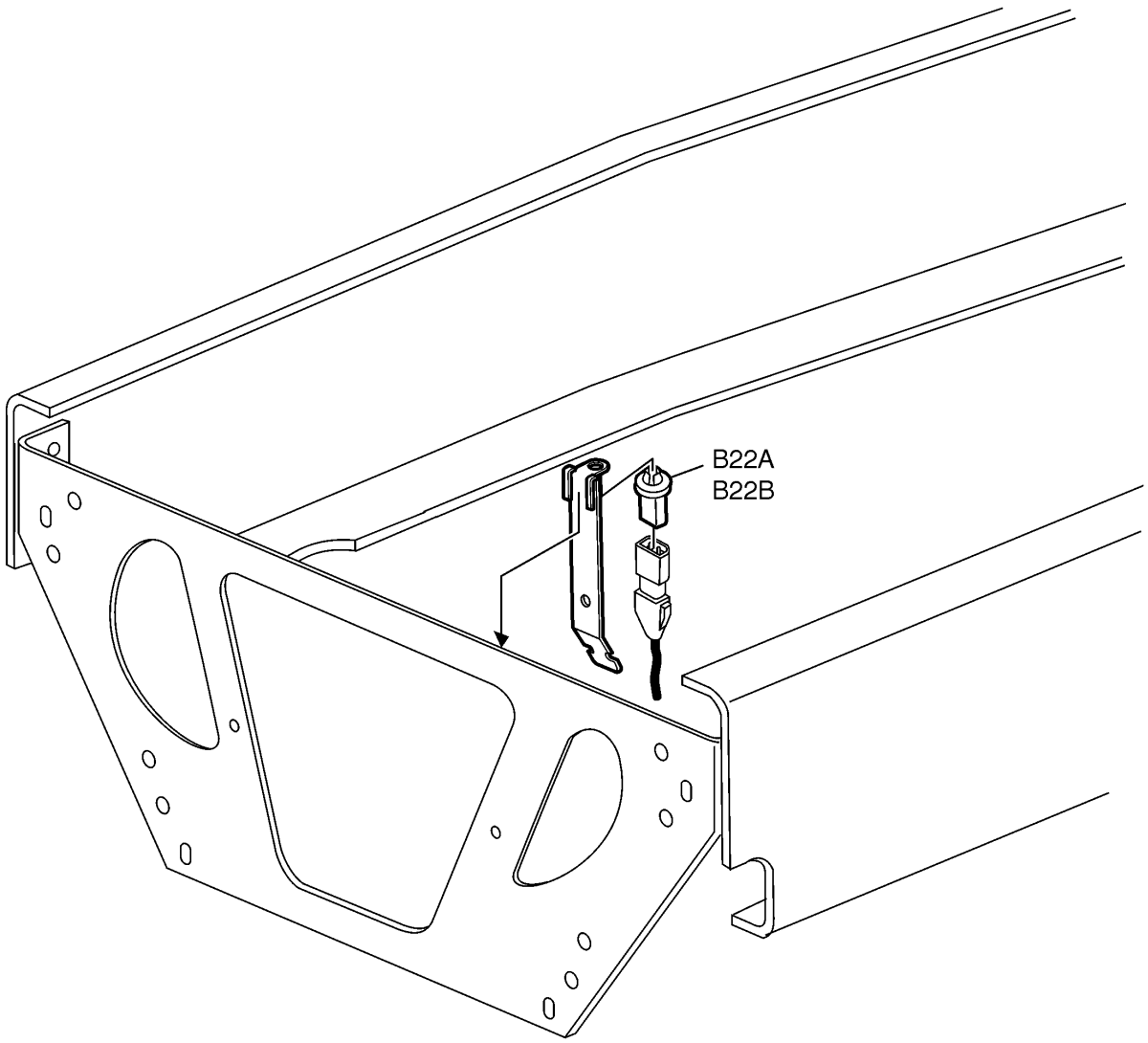
W3005919

Central Tire Inflation System



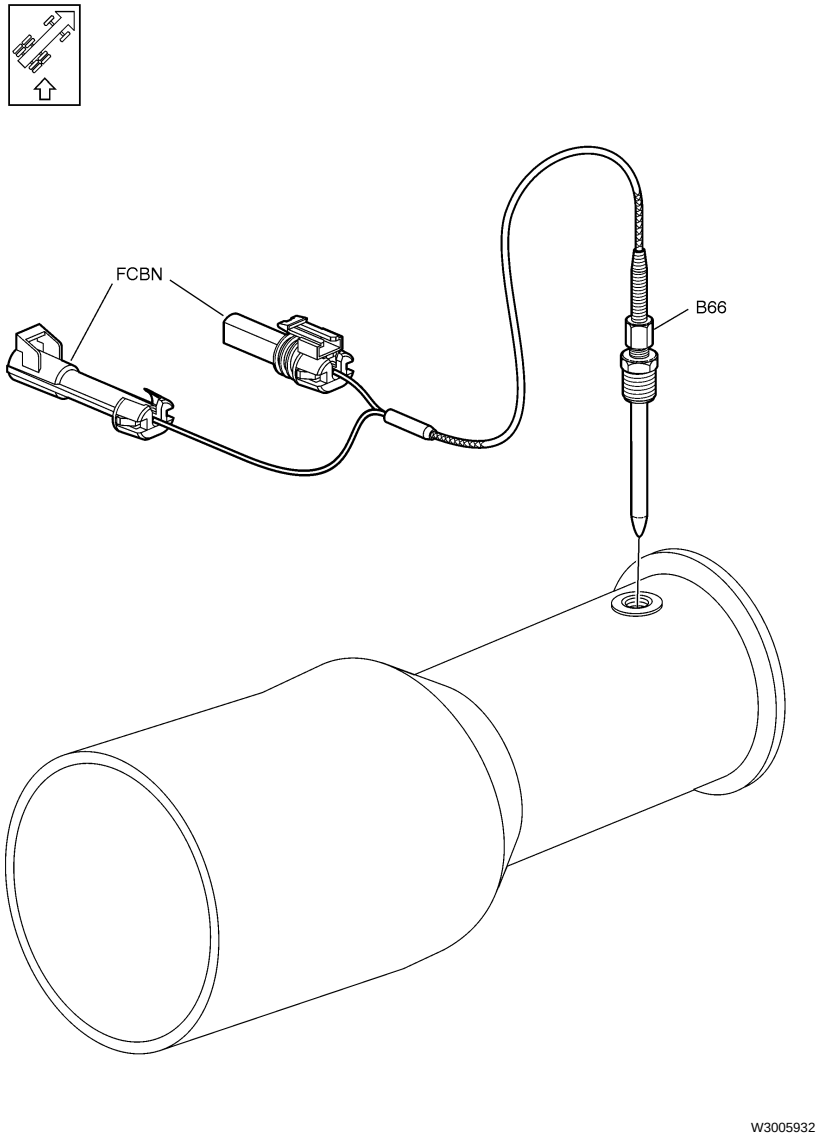
W3005930

Ambient Temperature Sensor

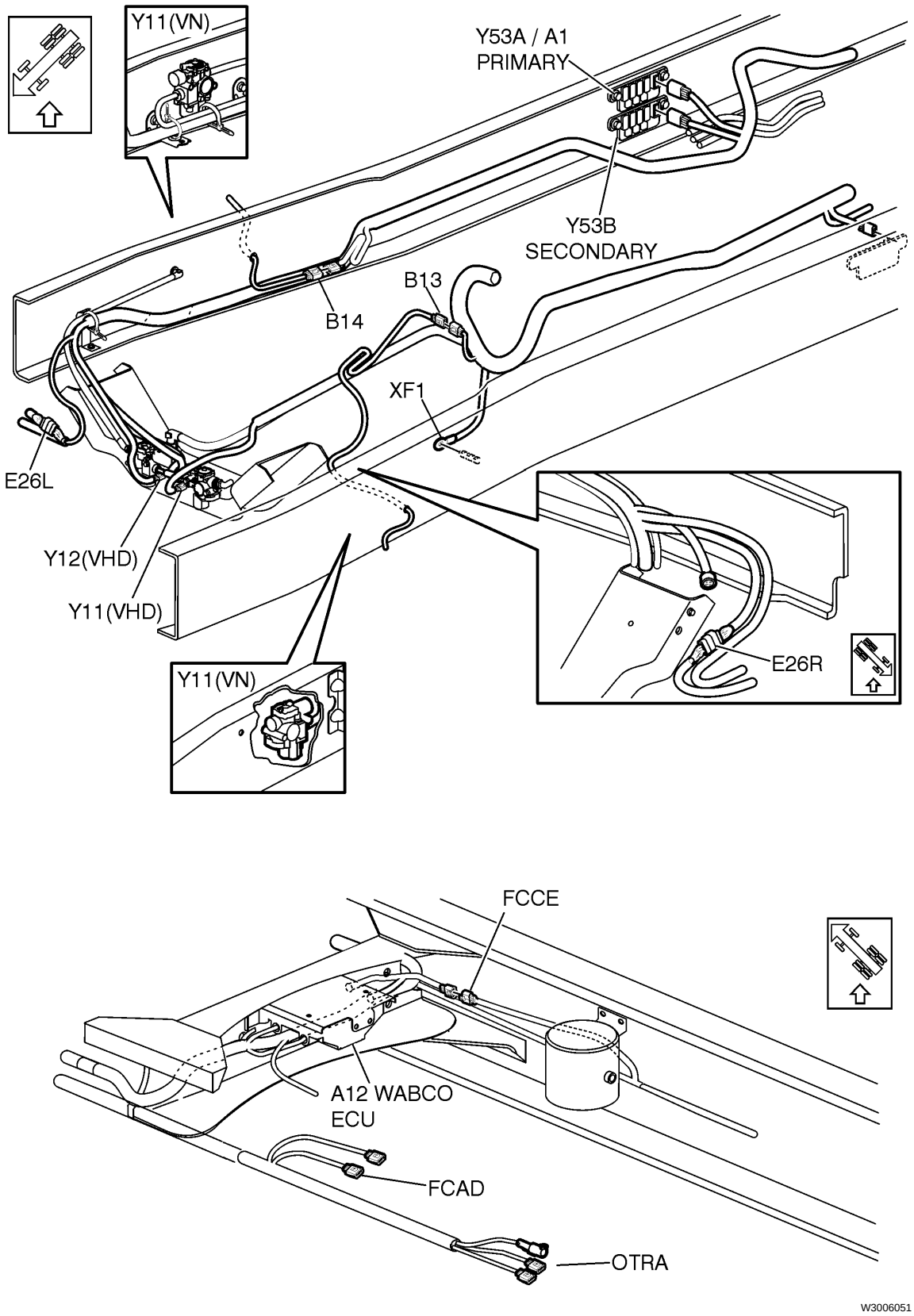


W3005931

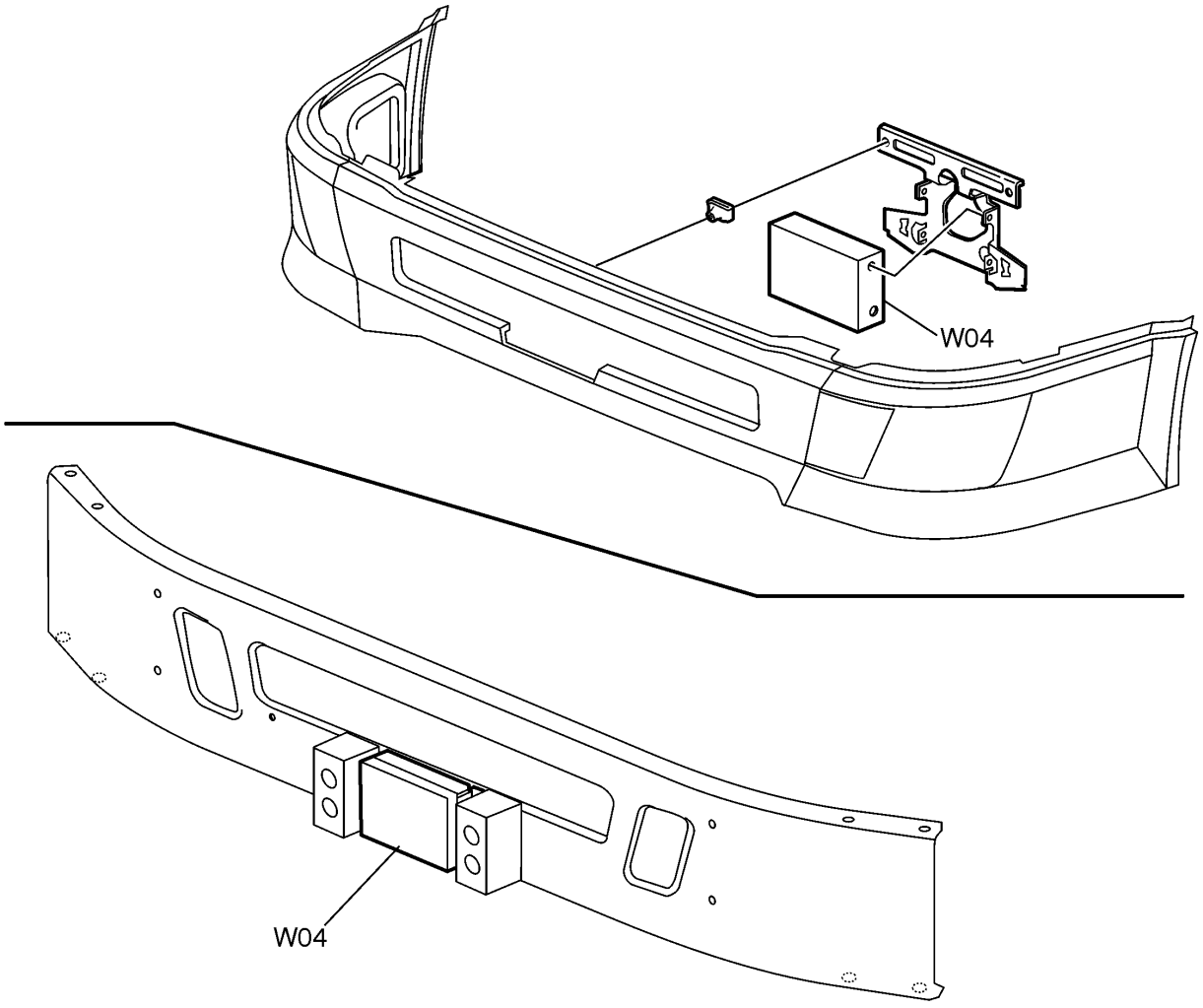
Pyrometer Sensor

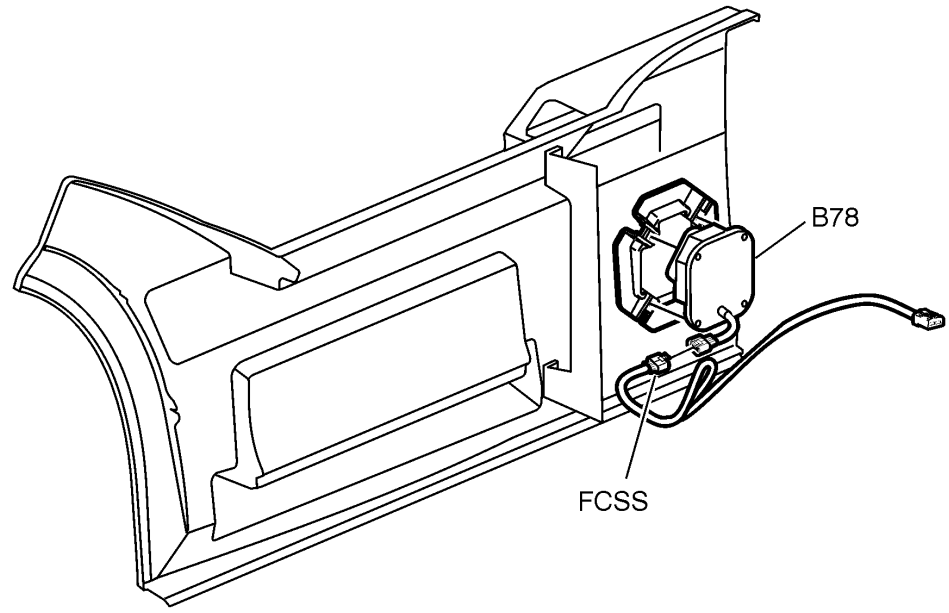


Chassis Harness



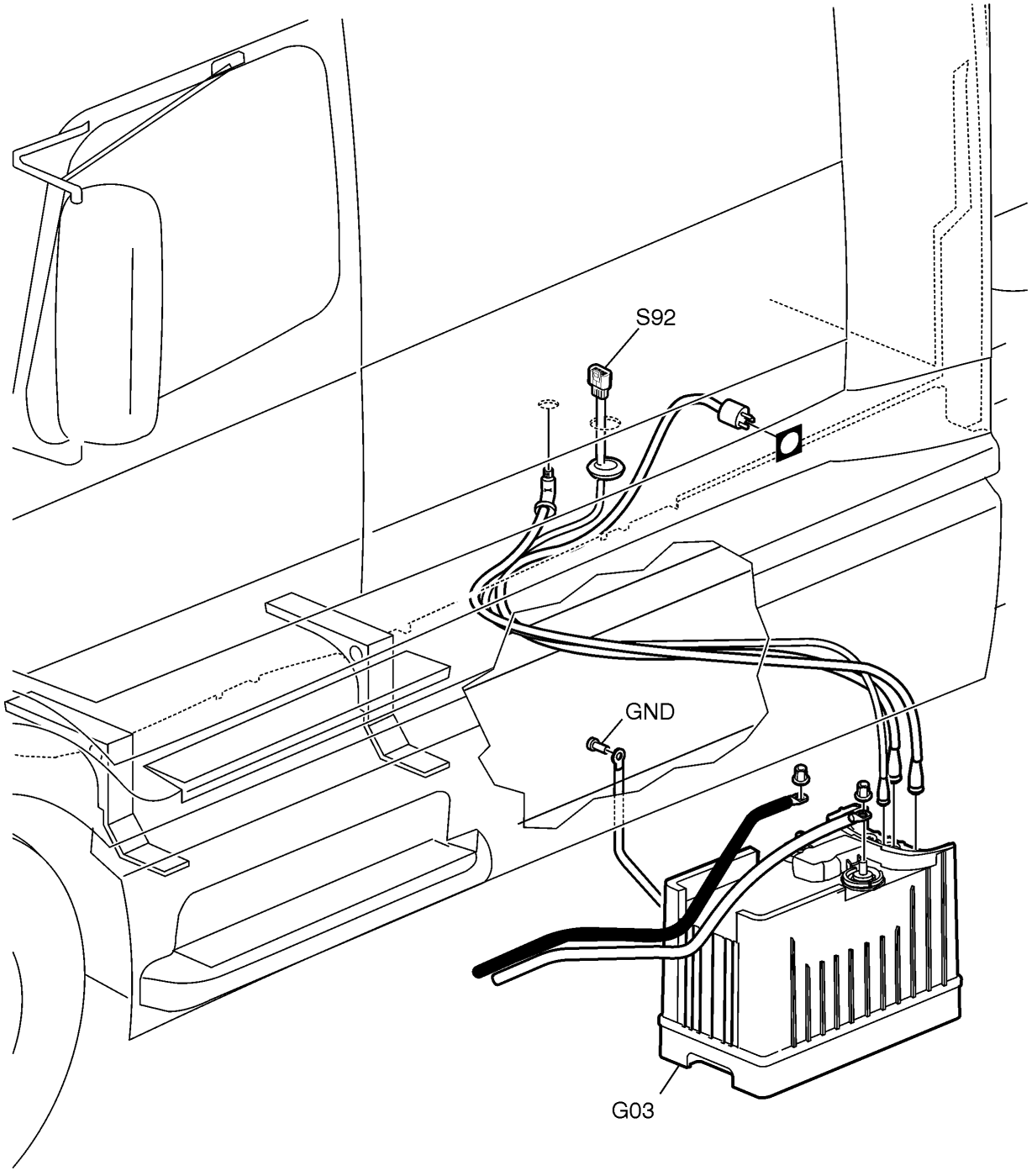
VORAD Antennas





W3005938

Inverter



Reference

Reference List: Fuses

Fuse	Circuit	Schematic
F1	DCP power /power mirror	{IC 2 A} {AB 3 D}
F2	Radio without Cummins Icon / Amp.	{KA 0 A} {KB 2 A} {KC 0 A} {AB 3 D}
F3	Driver window/ heated mirrors	{IC 1 A} {AB 3 D}
F4	RH Window	{IC 3 A} {AB 3 D}
F5	Steering Wheel Module (SWM)	{JC 0 A} {AB 3 D}
F6	Accessory expansion	{AB 4 D}
F7	Not Used	{AB 4 D}
F8	LCM1	{GB 2 A} {AB 3 C}
F9	Trailer Marker Relay	{MA 0 A} {AB 3 C}
F10	LCM2	{GB 2 B} {AB 3 C}
F11	Battery Expansion/ Volvo Link	{BF 1 A} {AB 3 C}
F12	Battery Expansion	{AB 4 C}
F13	Diagnostic Tool	{XA 2 A} {AB 4 C}
F14	-	
F15	Key B+	{AB 1 B}
F16	Key B+	{AB 2 B}
F17	LCM3	{GB 3 A} {AB 2 B}
F18	Trailer park relay	{GB 1 A} {AB 2 B}
F19	Lightning transmission (battery)	{DC 0 A} {AB 2 B}
F20	Battery protection / Beacon lamps	{HB 1 A} {GI 3 A} {AB 2 B}
F21	Cummins engine DR	{CC 1 B} {CI 3 B}
F22	Fuel filter	{AA 1 D} {CE 0 A}
F23	Climate Control ignition	{AA 1 D} {HA 0 B}

Fuse	Circuit	Schematic
F24	Instrument cluster	{AA 2 D} {BC 0 A}
F25	Heated seat	{AA 2 D} {IB 1 A}
F26	Windshield wiper	{AA 2 D} {GP 0 B}
F27	Interaxle Lock	{AA 2 D} {FD 3 A} {FC 2 A}
F28	Interwheel Lock	{AA 2 D} {FD 1 A} {FC 1 A}
F29	Camera Prep / Body Builder module / Vorad	{AA 3 D} {BG 1 A} {JB 2 A}
F30	LH Power Seat	{AA 3 D} {IB 0 A}
F31	RH Power Seat	{AA 3 D} {IB 1 A}
F32	Ignition Expansion	{AA 3 D} {BJ 2 A}
F33	Snow plow lamps LH	{AA 3 D} {GI 1 A}
F34	Central tire inflation	{AA 4 D} {FE 1 A}
F35	Snow plow lamps RH	{AA 4 D} {GI 1 A}
F36	LCM5	{AA 0 D} {GB 3 B}
F37	Trailer stop lamp relay	{AA 0 D} {GB 2 A}
F38	LCM6	{AA 0 D} {GB 3 A}
F39	City horn	{AA 0 D} {GQ 0 B}
F40	Radio / Instrument cluster memory	{AA 0 D} {BC 0 A} {KA 1 A} {KB 2 A} {KC 1 A}
F41	12V outlet, overhead	{AA 1 D} {IF 2 B}
F42	Cigar 12V outlet	{AA 0 D} {IF 0 B}
F43	Dome and door lamps	{AA 0 D} {IE 1 A}

Fuse	Circuit	Schematic
F44	Qualcomm battery	{AA 0 D} {BE 0 B}
F45	CB radio	{AA 0 D} {IF 3 B}
F46	Central lock unit	{AA 1 D} {IE 3 A}
F47	Air horn	{AA 1 D} {GQ 2 B}
F48	Not used	
F49	AUX1	{AA 0 E} {NA 0 A}
F50	AUX2	{AA 0 E} {NA 1 A}
F51	AUX3	{AA 0 E} {NA 2 B}
F52	Battery protection status	{AA 1 E} {HB 1 A}
F53	Climate control	{AA 1 E} {HA 0 A}
F54	Road Relay / Battery expansion	{AA 1 E} {BH 1 A}
F55	-	
F56	Air dryer	{FA 2 A} {AB 0 E}
F57	SRS	{JA 0 B} {AB 0 E}
F58	Lift Axles / Body builder reverse	{FB 0 A} {AB 0 E}
F59	Qualcomm / Inside/Outside Air	{BE 1 B} {CH 0 A} {AB 1 E}
F60	Road Relay / Body Builder Ign-Y	{BG 1 A} {BH 1 A} {AB 1 E}
F61	ABS1	{EA 2 A} {AB 1 E}
F62	ABS2	{EA 2 A} {AB 1 E}
F63	Susp. Dump	{FD 2 A} {FB 4 A} {AB 2 E}
F64	5th Wheel Slide	{FD 3 A} {FB 3 A} {AB 2 E}
F65	Light Control Module / Light Control Panel	{GA 1 A} {AB 2 E}

Fuse	Circuit	Schematic
F66	Body Builder Ign-X	{BG 0 A} {AB 2 E}
F67	Fuel cooler	{CG 1 A} {AB 3 E}
F68	Central lock unit	{IE 3 A} {AB 3 E}
F69	Ign Expansion/ Volvo Link	{BF 1 A} {AB 3 E}
F70	DR Spare	{AA 2 D}
F71	DR Spare	{AA 3 D}
F72	Gearbox	{AA 3 D} {DB 0 A} {DC 0 A} {DD 1 A} {DG 1 A} {DF 1 B}
F73	ICON	{AA 3 D} {CC 2 A}
F74	Radio with Icon / Amp.	{AA 3 D} {KA 0 A} {KB 2 A} {KC 0 A}
F75	PTO/ Dual PTO	{AA 3 D} {DP 2 A}
F76	Engine Brake	{AA 4 D} {CF 2 A}
F77	Allison DR	{DF 3 B}
F78	Allison	{DF 0 B}
F79	EMS A	{BA 0 A}
F80	EMS B/ Deairation Sw.	{BA 1 A}
F81	EMS System	{BA 0 A}
F82	Body Builder module	{BA 0 A}
F90	Sink pump	{HE 0 C}
F91	Preheat	{CB 2 E}
FB01	FUSE, BATTERY 1, EMS	{BA 0 D}
FB02	FUSE, BATTERY 2, EMS	{BA 0 D}
FB03	FUSE, BATTERY 1 TRANSMISSION	{DB 4 B} {DG 0 C} {DF 3 D}
FB04	FUSE, BATTERY 2 TRANSMISSION	{DF 3 D}

Reference List: Relays

Relay	Circuit	Schematic
RLY01	RELAY, DR	{AA 3 C}
RLY02	RELAY, TRAILER PARKING	{GB 1 B}
RLY03	RELAY, TRAILER STOP	{GB 2 B}
RLY04	RELAY, EMS	{BA 0 C}
RLY05	RELAY, ICON, BATTERY PROTECTION, LIFT AXLE / REVERSE SIGNAL	{CC 3 B} {FB 2 A}
RLY05_1	RELAY, BATTERY PROTECTION	{HB 1 D}
RLY06	RELAY, ICON / FUEL COOLER	{CC 2 B} {CG 1 B}
RLY07	RELAY, PTO	{DP 1 B}
RLY08	RELAY, ICON PARK BRAKE INPUT	{CC 3 B}
RLY09	RELAY TRAILER MARKER	{MA 0 B}
RLY10	RELAY, CITY HORN	{GQ 0 C}
RLY11	RELAY, DOME / DOOR LAMPS	{IE 1 C}
RLY12	RELAY, INTERMITTENT WIPER	{GP 0 B}
RLY13	RELAY, AUTOSHIFT	{DB 1 B}
RLY13_1	RELAY, ALLISON START ENABLE	{DF 0 C}
RLY14	RELAY, ALLISON AUTONEUTRAL	{DF 1 B}
RLY15	RELAY, ALLISON POWER	{DF 1 C}
RLY16	RELAY, BODY BUILDER REMOTE THROTTLE INC	{BA 3 B}
RLY17	RELAY, BODY BUILDER REMOTE THROTTLE DEC	{BA 3 B}
RLY18	RELAY, ALLISON SERVICE BRAKE INPUT	{DF 2 C}
RLY20	RELAY, ALLISON BODY BUILDERER1	{DF 2 C}
RLY21	RELAY, ALLISON BODY BUILDERER2	{DF 3 C}
RLY26	SNOWPLOW LH ER8	{GI 1 C}
RLY27	SNOWPLOW RH ER9	{GI 0 C}
RLY28	SNOWPLOW LCM INPUTER7	{GI 2 C}
RLY29	POWER RELAY 1 BATTERY	{AA 1 C}
RLY30	POWER RELAY 2 IGNITION	{AA 1 C}
RLY31	POWER RELAY 3 IGNITION	{AB 1 D}
RLY32	POWER RELAY 4 ACCESSORY	{AB 1 D}
RLY40	RELAY STARTER MOTOR	{AA 3 B}
RLY41	RELAY, PARK BRAKE	{HB 4 C}
RLY42	RELAY ENGINE PREHEAT	{CB 2 B} {CD 0 A}

Reference List: Components

Component # and Description		Location
A03A	INSTRUMENT CLUSTER A	{BC 0 C}
A03B	INSTRUMENT CLUSTER B	{BC 2 C}
A03C	INSTRUMENT CLUSTER C	{BD 0 C}
A04	REFRIGERATOR	{HD 0 B} {HE 1 C}
A04A	REFRIGERATOR	{HE 1 D}
A07A	RADIO	{KA 0 C}
A07B	RADIO	{JC 1 C} {KB 2 B}
A07C	RADIO	{KC 1 B}
A08	Control unit, GPS receiver, (Global Positioning System)	{BF 1 C}
A12	Control unit, ABS (Anti-lock Brake System)	{EA 2 C}
A13L	CONTROL UNIT LIGHTNING TRANSMISSION	{DC 0 C}
A13M	CONTROL UNIT MERITOR TRANSMISSION	{DD 1 C}
A14A	CONTROL UNIT, VED12	{CB 0 D}
A14B	CONTROL UNIT, EMS, CUMMINS ISX	{CC 0 D}
A14C	CONTROL UNIT, EMS, CUMMINS ISL / ISC	{CD 0 C}
A14D	CONTROL UNIT, EMS, ICON	{CC 3 D}
A14E	CONTROL UNIT, ISX 2000 W/O ICON	{CI 1 D}
A15	Control unit, SRS (Supplementary Restrain System)	{JA 1 C}
A17	Control unit, VECU (Vehicle ECU)	{BA 1 D} {BB 0 A}
A19D	CONTROL UNIT, GECU (GEAR SELECTOR ECU) ALLISON TRANSMISSION	{DE 1 B}
A27	LIGHT CONTROL MODULE	{GA 3 C} {GG 0 A} {GB 0 C}
A30	CONTROL UNIT, SWC (STEERING WHEEL CONTROL)	{JC 1 C}
A34	Control unit, climate unit	{HA 2 B}
A35	Control unit, remote receiver, door lock	{IE 3 B}
A36	Control unit, BBM (Body Builder Module)	{BI 0 C}
A38	Control unit, FMS, satellite communication	{BE 1 C}

Component # and Description		Location
A46	Control unit, LECM (Living Enviroment Control Module)	{HD 3 A} {HB 3 B} {HE 2 A}
A48	TV	{KC 0 C}
A50	CPU, Vorad	{JB 2 C}
A51	Display, Side Sensor Vorad	{JB 1 E}
A52	Display, CTI (Central Tire Inflation)	{FE 2 B}
A53	Control unit, CTI (Central Tire Inflation)	{FE 0 C}
A54	Control Unit, Coolant Level	{CC 0 E} {CD 2 B} {CI 0 D}
A55	AUTOSHIFT II TRANSMISSION	{DB 3 D}
A56	Stereo amplifier	{KC 0 C}
A57	CONTROL UNIT, ALLISON TRANSMISSION	{DE 3 C} {DF 0 D}
A58	ALLISON TRANSMISSION	{DE 0 E}
A66	DISPLAY, AUTOSHIFT	{DB 1 C}
A67	DISPLAY DRIVER VORAD	{JB 0 A}
A68	MERITOR FREEDOMLINE	{DG 0 E}
A69	SHIFT MODULE	{DG 1 B}
A70	Shift module Autoshift II	{DB 0 D}
B02A	THERMOSTAT, SLEEPER CONTROL #1	{CC 1 B}
B02B	THERMOSTAT, SLEEPER CONTROL #2	{CC 0 B}
B06A	SENSOR AIR PRESSURE TANK A	{BC 3 D}
B06AP	SENSOR AIR PRESSURE BRAKE APPLICATION	{BC 2 D}
B06B	SENSOR AIR PRESSURE TANK B	{BC 3 D}
B07	SENSOR FUEL LEVEL	{BC 2 D}
B08	Sensor, gearbox speed	{FE 1 D}
B09	SENSOR OIL TEMP GEARBOX	{BC 4 B}
B13	Sensor, wheel speed, lhs. 1:st front axle	{EA 1 B}
B14	Sensor, wheel speed, rhs. 1:st front axle	{EA 1 B}
B15	Sensor, wheel speed, lhs. 1:st driven rear axle	{EA 0 D}
B16	Sensor, wheel speed, rhs. 1:st driven rear axle	{EA 0 D}
B17	Sensor, wheel speed, lhs., 2:nd driven rear axle	{EA 2 D}
B18	Sensor, wheel speed, rhs., 2:nd driven rear axle	{EA 3 D}

Component # and Description		Location
B22A	SENSOR AMBIENT AIR TEMP.	{BC 3 B}
B22B	SENSOR AMBIENT AIR TEMP.	{BC 3 B}
B25	Sensor, accelerator pedal	{BB 4 C}
B38RF	SENSOR OIL TEMP REAR FRONT AXLE	{BC 3 B}
B38RR	SENSOR OIL TEMP REAR REAR AXLE	{BC 3 B}
B39	SENSOR AIR RESTRICTION	{BD 0 B}
B53	Sensor, temperature, parking heater	{CC 0 C}
B56	Sensor, air pressure, suspension bellows front axle	{BC 2 C}
B58R	SENSOR AIR PRESSURE REAR SUSPENSION	{BC 2 D}
B59	Sensor, Indoor Temp.	{HA 2 B}
B60A	SPEAKER LEFT DASH	{KA 2 D} {KB 3 D} {KC 1 D}
B60B	SPEAKER RIGHT DASH	{KA 2 D} {KB 2 D} {KC 2 D}
B60C	SPEAKER LEFT DOOR	{KA 0 D} {KB 3 D} {KC 0 D}
B60D	SPEAKER RIGHT DOOR	{KA 1 D} {KB 2 D} {KC 0 D}
B60E	SPEAKER LEFT UPPER	{KB 0 D} {KC 2 B}
B60F	SPEAKER RIGHT UPPER	{KB 0 D} {KC 3 B}
B60G	SPEAKER LEFT LOWER	{KC 2 D}
B60H	SPEAKER RIGHT LOWER	{KC 2 D}
B60I	SPEAKER SUBWOOFER	{KC 3 D}
B60J	SPEAKER LEFT UPPER	{KB 1 D}
B60K	SPEAKER RIGHT UPPER	{KB 1 D}
B60L	SPEAKER LEFT REAR	{KB 0 B}
B60M	SPEAKER RIGHT REAR	{KB 0 B}
B61A	TWEETER LEFT DASH	{KA 2 D} {KB 3 D} {KC 0 D}
B61B	TWEETER RIGHT DASH	{KA 1 D} {KB 1 D} {KC 1 D}
B62	Socket, TV Headphone	{KC 0 C}
B66	PYROMETER	{BC 2 B}
B68	Sensor, output shaft speed, gearbox	{BB 0 D}
B68A	Sensor,Output shaft Speed, gearbox	{BB 1 D}

Component # and Description		Location
B68B	Sensor,Output shaft Speed, gearbox	{DC 1 D}
B78	Side Sensor, Vorad	{JB 1 D}
B79	Sensor, PCU (Pneumatic Control Unit)	{FE 2 D}
B80	SENSOR, ETHER START	{CA 1 C}
B81	SENSOR, WATER IN FUEL	{CD 0 D}
E05A	LAMP 5TH WHEEL (L1)	{GG 1 C}
E05B	LAMP 5TH WHEEL (L3, L4)	{GH 0 C}
E05C	LAMP 5TH WHEEL (L5)	{GH 2 C}
E05D	LAMP 5TH WHEEL	{GG 2 C} {GG 1 C} {GG 1 C} {GH 0 C} {GH 3 C} {GH 2 C} {GH 3 C} {GH 1 C} {GH 1 C}
E05E	LAMP 5TH WHEEL	{GG 1 C} {GH 0 C} {GH 2 C}
E05F	LAMP 5TH WHEEL	{GG 2 C} {GH 3 C} {GH 1 C}
E05G	LAMP 5TH WHEEL	{GG 2 C} {GH 3 C} {GH 1 C}
E05H	LAMP 5TH WHEEL	{GG 2 C} {GH 2 C} {GH 3 C}
E06	Lamp, Backup	{GF 2 C}
E07L	Lamp, Fog Light	{GE 0 C}
E07L_2	Lamp, Fog Light	{GE 1 C}
E07R	Lamp, Fog Light	{GE 0 C}
E07R_2	Lamp, fog light	{GE 1 C}
E08L	Lamp, Driving Light	{GE 2 C}
E08L_2	Lamp, Driving Light	{GE 1 C}
E08R	Lamp, Driving Light	{GE 2 C}
E08R_2	Lamp, Driving Light	{GE 1 C}
E10	Lamp, Tail Light	{GF 3 C}
E10L	LAMP TAIL LIGHT LEFT	{GF 0 C}
E10LA	LAMP TAIL LIGHT LEFT	{GF 1 C}
E10LB	LAMP TAIL LIGHT LEFT	{GF 3 B}
E10R	LAMP TAIL LIGHT RIGHT	{GF 0 C}
E10RA	LAMP TAIL LIGHT RIGHT	{GF 2 D}
E10RB	LAMP TAIL LIGHT RIGHT	{GF 3 B}
E11L	Lamp, Side Repeater	{GA 1 D}

Component # and Description		Location
E11R	Lamp, Side Repeater	{GA 1 D}
E12A	LAMP, MARKER	{GC 1 C}
E12B	LAMP, MARKER	{GC 1 C}
E12C	LAMP, MARKER	{GC 2 C}
E12D	LAMP, MARKER	{GC 2 C}
E12E	LAMP, MARKER	{GC 2 C}
E13L	Lamp, Park/Turn	{GD 1 C}
E13R	Lamp, Park/Turn	{GD 2 C}
E14L	WARNING LAMP SNOWPLOW	{GI 3 C}
E14R	WARNING LAMP SNOWPLOW	{GI 4 C}
E16L	Lamp Door, D.S.	{IE 1 D}
E16R	Lamp Door, P.S.	{IE 1 D}
E17C	Lamp Flourescent	{HD 2 C} {HE 3 C}
E17D	Lamp Workcenter Fluorescent	{HE 3 B}
E17L	Lamp, Interior Light	{IE 0 D}
E17R	Lamp, Interior Light	{IE 0 D}
E18A	Lamp Lower D.S.	{HD 4 D}
E18B	Lamp Under Cabinet D.S.	{HD 3 C}
E18C	Lamp Upper D.S.	{HD 1 C} {HE 2 B}
E18D	Lamp Upper P.S.	{HE 2 B}
E18E	Lamp Valance D.S.	{HE 3 C}
E18F	Lamp Valance P.S.	{HE 3 B}
E18G	Lamp Upper P.S.	{HD 2 C}
E18H	Lamp Upper D.S.	{HD 2 C}
E18J	Lamp Lower D.S.	{HD 3 D}
E18K	Lamp Table	{HD 3 D}
E20A	Lamp Ashtray Illumination	{IF 1 C}
E22A	LAMP, ROOF SIGN ILLUMINATION	{GC 0 C}
E22B	LAMP, ROOF SIGN ILLUMINATION	{GC 0 C}
E22C	LAMP, ROOF SIGN ILLUMINATION	{GC 0 C}
E23A	Lamp Luggage D.S.	{HD 3 B}
E23B	Lamp Luggage P.S.	{HD 3 B}
E23C	Lamp Luggage D.S.	{HE 3 D}
E23D	Lamp Luggage P.S.	{HE 4 D}
E26L	Lamp, Headlamp Module	{GD 0 C}
E26L_1	Lamp, Headlamp Module	{GD 1 C}
E26R	Lamp, Headlamp Module	{GD 3 C}
E26R_1	Lamp, Headlamp Module	{GD 2 C}
E28	PARKING HEATER	{HB 3 D}
E30L	Lamp, Headlamp	{GD 0 C}

Component # and Description		Location
E30R	Lamp, Headlamp	{GD 3 C}
E32	HVAC UNIT	{HB 2 C}
E32A	HVAC UNIT	{HA 2 D}
E36A	LAMP, SUNVISOR	{GC 3 C}
E36B	LAMP, SUNVISOR	{GC 3 C}
E36C	LAMP, SUNVISOR	{GC 3 C}
E36D	LAMP, SUNVISOR	{GC 3 C}
E36E	LAMP, SUNVISOR	{GC 4 C}
E37	Lamp LECM Panel	{HE 1 B}
E38	LAMP ICON	{CC 3 C}
E39	Lamp, License Plate Illumination	{GF 2 C}
E43L	Lamp, Driving/Fog	{GE 0 B}
E43R	Lamp, Driving/Fog	{GE 3 B}
G01	Battery	{BA 0 E} {AA 3 B} {DB 4 B} {HC 0 B} {DG 0 B} {AD 4 E}
G01	Battery	{DF 3 E}
G02	Alternator	{AA 3 B} {CB 3 B} {BG 0 B} {AD 2 D}
G03	Inverter, 12VDC - 120VAC	{HC 0 B}
G04	Power Distribution Unit, 120VAC	{HC 2 B}
H02	Horn	{GQ 0 D}
H03	Backup Alarm	{GF 3 C}
H05	Alarm	{CC 3 D}
H07	SMOKE DETECTOR	{IG 1 B}
M01	WINDSHIELD WIPER MOTOR	{GP 2 D}
M02A	WINDSHIELD WASHER PUMP, VN	{GP 3 D}
M02B	WINDSHIELD WASHER PUMP, VHD	{GP 3 B}
M04	Motor, Starter	{AA 4 A} {CD 1 A} {AD 2 D}
M06DS	Motor, Window Winder D.S.	{IC 1 C}
M06PS	Motor, Window Winder P.S.	{IC 2 D}
M110L	Mirror Motors & Heater, LHS	{IC 0 B}
M110R	Mirror Motors & Heater, RHS	{IC 3 B}
M18	MOTOR SINK PUMP	{HE 0 D}
M20L	POWER SEAT, LEFT	{IB 0 D}
M20R	POWER SEAT, RIGHT	{IB 1 D}
M23	MOTOR FAN FUEL COOLER	{CG 1 D}

Component # and Description		Location
M80L	Drivers Side Door Lock Control Assembly	{IE 2 D}
M80R	Passenger Side Door Lock Control Assembly	{IE 3 D}
MFA1	Not Used	{AA 1 D}
MFA2	Fuse F4 & F10 in LECM/ Body Builder	{AA 1 B} {HB 2 A} {BG 0 A}
MFA3	FUSE F36-F41	{AA 0 B}
MFA4	DR Relay	{AA 1 B}
MFA5	POWER RELAY 2	{AA 0 B}
MFA6	POWER RELAY 1	{AA 0 B}
MFA7	LCM4	{AA 1 B} {GB 3 B}
MFA8	Not Used	{AA 1 B}
MFB1	Fuse F1 & F7 in LECM	{HB 1 A} {AB 3 C}
MFB2	TRAILER AUX	{MA 0 A} {AB 0 D}
MFB3	POWER RELAY 3	{AB 3 C}
MFB4	POWER RELAY 4	{AB 3 C}
MFB5	Fuse F8-F13	{AB 4 C}
MFB6	Fuses F15-F20	{AB 1 A}
MFB7	BUNK HVAC	{HB 2 A} {AB 3 C}
MFB8	BUNK FUNCTIONS	{HB 3 A} {AB 4 C}
R01	Heater, engine preheat	{CB 3 C} {CD 1 B}
R04A	Cigar Lighter	{IF 1 C}
R04B	CIGAR LIGHTER, PANEL	{HD 1 B} {HE 1 C}
R05A	AIR DRYER	{FA 2 C}
R05B	AIR DRYER	{FA 2 C}
R05C	AIR DRYER	{FA 3 C}
R08	Termination resistor, CAN-bus	{CC 1 C} {CD 3 B} {CI 2 B}
R08A	TERMINATION RESISTOR	{BI 2 A}
R08B	TERMINATING RESISTOR	{XA 2 B}
R08C	TERMINATING RESISTOR	{XA 3 B}
R09	Heater, Fuel Filter	{CE 0 C}
R18A	HEATER DRAIN VALVE	{FA 0 C}
R18B	HEATER DRAIN VALVE	{FA 1 C}
S01	Switch, main lighting, selector type	{GA 0 C}
S02	Stalk switch, full- / dipped beams	{BA 2 B}

Component # and Description		Location
S04	SWITCH, CLIMATE FAN SELECTOR TYPE	{HB 0 B}
S05	Switch Interior Lighting	{HD 0 B} {HE 2 D}
S06	WINDSHIELD WIPER SWITCH	{BC 1 C} {GP 0 C}
S07	Switch, engine brake, selector type	{CF 3 C} {CF 1 C} {CF 0 C} {CF 0 D}
S08	Switch, differential gear lock, rear wheels	{FD 1 B} {FC 1 C}
S09	Switch, differential gear locks, inter axles and rear wheels, selector type	{FD 3 B} {FC 2 C}
S104	Switch, Marker Interrupt	{JC 3 C}
S104A	Auxiliary Switch 1	{NA 0 C}
S104B	Auxiliary Switch 2	{NA 1 C}
S104C	Auxiliary Switch 3	{NA 2 C}
S11A	SWITCH 1, LIFT AXLE	{FB 0 B}
S11B	SWITCH 2, LIFT AXLE	{FB 1 C}
S11C	SWITCH 3, LIFT AXLE	{FB 2 C}
S12	SWITCH, SNOWPLOW LAMP	{GI 1 B}
S120	THERMAL SWITCH FUEL COOLER	{CG 0 B}
S121	SWITCH, TOUCH LOCK	{BJ 2 C}
S13	Stalk switch, direction indicator, selector type	{GA 2 B}
S14A	Switch, City Horn/Air Horn	{GQ 1 C}
S15	Switch, Ignition	{AB 1 C}
S24	Stalk switch, retarder, selector type	{CF 2 D}
S24A	SWITCH, STALK ALLISON RETARDER	{DE 0 B}
S24C	Switch, ON/OFF Allison Retarder	{CF 3 C} {CF 2 C} {DE 2 B}
S28A	Switch, Power Take-Off	{DP 2 C}
S28B	Switch, Power Take-Off	{DP 3 C}
S28C	Switch, Power Take-Off	{DP 4 C}
S28E	SWITCH, VOLVO ACTION SERVICE	{BF 1 D}
S31	Switch, TCS (Traction Control System)	{EA 3 B}
S35	Switch unit, GLU (Gear Lever Unit)	{DC 2 D}
S35M	SWITCH UNIT, GLU (GEAR LEVER UNIT)	{DD 1 D}
S43	Pressure Switch, Parking Brake Indicator	{BA 4 C}

Component # and Description		Location
S45	Position switch, differential gear lock indicator, rear wheels, NC. or NO.	{BD 2 B}
S45B	DIFFERENTIAL SWITCH, REAR AXLE	{BD 2 B}
S48	Pressure switch, brake light, NO.	{GB 2 D}
S49	Position switch, reverse lamps, NO.	{GA 2 B}
S58	Position Switch, Clutch Pedal	{BB 3 B}
S59	Position Switch, Brake Pedal	{BB 3 B}
S62	Pressure switch, air pressure, NC.	{FE 0 D}
S68	Proximity switch, coolant level, NC.	{CC 1 E} {CD 2 B} {CI 0 D}
S75	SWITCH, BEACON WARNING LIGHT	{GI 3 B}
S76	Switch, spotlights	{GG 0 C}
S80	Door Lock Control Module	{IE 2 B}
S80D	Driver Side Door Control Panel	{IC 2 B}
S80P	Passenger Side Door Control Panel	{IC 2 D}
S87	SWITCH SINK/ FAUCET	{HE 0 C}
S88	Switch, 5th Wheel Slide	{FD 2 B} {FB 3 B}
S89	POSITION SWITCH HOOD TILT	{CC 4 D}
S90	POSITION SWITCH, NEUTRAL	{CC 4 D}
S91	SWITCH, DEAIRATION	{BA 1 B}
S92	Switch, Inverter remote	{HC 0 D}
S93	Switch, Suspension Dump	{FD 1 B} {FB 3 C}
S97	SWITCH, INSIDE / OUTSIDE AIR CLEANER	{CH 0 C}
S98	Switch, Smoke Detector Disable/Beacon Lamp	{IG 2 D}
W04	Front Antenna, Vorad	{JB 0 E}
X01	Connector, Vehicle Diagnostics	{XA 2 D}
X04	Trailer connection, 7-pole unit, 24 N	{MA 1 D}
X06A	BODY BUILDER CONNECTOR #3	{BI 1 D}
X06B	BODY BUILDER CONNECTOR #4	{BI 3 D}
X06C	BODY BUILDER CONNECTOR #1	{BG 0 D}
X06D	BODY BUILDER CONNECTOR #2	{BG 2 B}
X06E	CUMMINS ISC/ISL ONLY WITH BODY BUILDER	{BG 2 C}
X06F	BODY BUILDER CAMERA PREP	{BG 1 B}
X07A	12V SOCKET	{IF 0 C}
X07B	12V SOCKET, PANEL	{HD 1 C} {HE 1 B}
X07C	12V SOCKET, D.S. CABINET	{HE 2 C}

Component # and Description		Location
X07D	12V SOCKET, TV/VCR	{HD 1 C} {HE 2 B}
X07E	12V SOCKET, RADIO SHELF	{IF 2 C}
X07F	12V STUDS, CB OVERHEAD	{IF 3 C}
X07G	12V STUDS, CB DASH	{IF 3 C}
X08	Contact reel, air bag	{GA 3 B} {JA 0 D} {JC 0 D}
X0A	SPLICE PACK	{AC 3 B}
X0B	SPLICE PACK	{AC 3 D}
X0D	SPLICE PACK	{AC 2 B}
X0X	SPLICE PACK	{AD 3 B}
X13	Connector, CTI configuration	{FE 0 C}
X14	ROAD RELAY CONNECTOR	{BH 0 C}
X17A	Auxiliary Connector 1	{NA 0 D}
X17B	Auxiliary Connector 2	{NA 1 D}
X17C	Auxiliary Connector 3	{NA 2 D}
X17CA	OPTION CONNECTOR A,CAB SIDE	{BG 2 D}
X17CB	OPTION CONNECTOR B,CAB SIDE	{BG 3 D}
X17CC	OPTION CONNECTOR C,CAB SIDE	{BG 3 D}
X17FA	OPTION CONNECTOR A, CHASSIS SIDE	{BG 2 D}
X17FB	OPTION CONNECTOR B,CHASSIS SIDE	{BG 3 D}
X17FC	OPTION CONNECTOR C, CHASSIS SIDE	{BG 3 D}
X18A	Fusible Link	{AA 2 A}
X18B	Fusible Link	{AB 3 A}
X18C	Fusible Link	{AD 2 D}
X18D	Fusible Link	{CD 1 B}
X18E	Fusible Link	{CD 1 B}
X19	RADIO CONNECTOR	{BH 4 B}
X20	MAIN CAB RADIO CONNECTOR	{BH 3 B}
X21	OPTION CONNECTOR SNOWPLOW LIGHTS	{GI 1 D}
X23	Connector, Interface V.A.L.	{BF 2 B}
X24	Connector, Low Coolant Level	{CD 2 A}
X25	Connector, OEM Interface	{CI 0 C}
X284/196DR	SPLICE PACK	{AB 0 A}
X400	SPLICE PACK	{XA 0 B}
X401	SPLICE PACK	{XA 1 B}
XP1	POWER STUD	{AA 1 A}

Component # and Description		Location
XP2	POWER STUD	{AB 3 B}
Y11	Solenoid valve unit, ABS, lhs. front	{EA 1 B}
Y12	Solenoid valve unit, ABS, rhs. front	{EA 0 B}
Y13	Solenoid valve unit, ABS, lhs. rear	{EA 1 D}
Y14	Solenoid valve unit, ABS, rhs. rear	{EA 1 D}
Y15	Solenoid valve unit, ABS, lhs. 3:rd axle	{EA 3 D}
Y16	Solenoid valve unit, ABS, rhs. 3:rd axle	{EA 3 D}
Y18A	SOLENOID VALVE SINGLE PTO	{DP 0 D}
Y18B	SOLENOID VALVE ENGINE MOUNTED DUAL PTO	{DP 3 D}
Y42	Clutch, magnetic, air conditioning compressor	{HA 1 C}
Y50	Solenoid valve, PCU (Pneumatic Control Unit)	{FE 3 D}
Y51	Solenoid valve, Air dryer	{FA 3 C}
Y53	SOLENOID, ETHER START	{CA 0 C}
Y53A	SOLENOID PACK, PRIMARY	{FD 0 D} {GQ 1 C} {FC 0 D}
Y53A_1	SOLENOID PACK, PRIMARY	{FD 3 C} {FD 2 C}
Y53B	SOLENOID PACK, SECONDARY	{FD 0 A} {FB 1 D} {BJ 2 D}
Y53B_1	SOLENOID PACK, SECONDARY	{FB 2 D}

Component # and Description		Location
Y57	Solenoid Valve, ACT	{EA 1 D}
free1_52	*opt*	{IE 4 C}
MC141A:D	*opt*	{BJ 1 B}
MC141A:G	*opt*	{NA 0 B}
MC141A:H	*opt*	{IG 2 B}
MC141A:J	*opt*	{BF 0 B}
MC141A:K	*opt*	{NA 1 A}
MC141A:L	*opt*	{NA 3 B}
MCFC:69	*opt*	{BJ 2 C}
MCFC:94	*opt*	{BJ 2 C}
X0B:A	*opt*	{AC 3 D}
XC1	Stud, Bulkhead Inside Cab	{AD 2 C}
XE1	Stud, Eng. Block	{AD 1 D}
XF1	Stud, Frame Rail	{AD 0 D}
XG2	Stud 2, Bulkhead	{AC 2 E}
XG3	Stud 3, Bulkhead	{AC 3 E}
XG4	Stud 4, Bulkhead	{AC 3 E}
XG5	Stud 1, Bulkhead	{AC 0 D} {AC 2 E}
XG6	Stud, Bulkhead	{AD 0 C}
XG7	Stud, Bulkhead	{AD 0 C} {AD 1 C}
XG9	Stud, Behind Alt.	{CB 3 D} {CD 1 C}

Reference List: Inline Connectors

Inline connectors are named by combining a set of harness abbreviations. The first abbreviation represents the feeding harness. In some cases, more than one connector is between two harnesses. In this case a number is added to the end of the abbreviation.

Example:

MCSL2:3 Main Cab and Sleeper Harness Inline, Connector 2, Pin 3

MCSL4:C Main Cab and Sleeper Harness Inline, Connector 4, Pin C

Harness Abbreviations (Examples)

NAME	HARNESS	NAME	HARNESS
AD	AIR DRIER	PL	SNOWPLOW OVERLAY
ALS	ALLISON SELECTOR - GEAR	PM	POWER MODULE
AR	AIR RESTRICTION JUMPER	PS	PREMIUM SOUND OVERLAY
AS	AUTOSHIFT	PTO	POWER TAKE-OFF
AT	ALLISON TRANSMISSION	QC	QUALCOMM
B	EXPANSION BLOCK	RA	REAR AXLE
BB	BODY BUILDER DASH OVERLAY	RAJ	REAR AXLE JUMPER
BOC	BACK OF CAB LAMP JUMPER	RF	ROOF SIGN
BP	BATTERY POWER - ENGINE	RFJ	ROOF SIGN JUMPER
CB	C.B. STUDS JUMPER	RH	REAR WALL HEADER
CE	CHASSIS EXTENSION	RJ	RADIO JUMPER
DL	DOOR - LEFT	RS	RADIO SHELF PREP.
DLR	DIFFERENTIAL LOCK	RW	REAR WALL
DR	DOOR - RIGHT	SK	SINK/FAUCET PUMP
DV	DRAIN VALVE HEATER	SL	SLEEPER
EB	ENGINE BRAKE JUMPER	SN	SHIFT KNOB
EN	ENGINE	SP	SPEAKER JUMPER
FA	FRONT ANTENNA	SPJ	SOLENOID PACK JUMPER
FC	FRONT CHASSIS	SPO	SNOWPLOW OPTION
FCJ	FUEL COOLER JUMPER	SS	SIDE SENSOR (VORAD)
FD	FOG AND DRIVING LAMPS	SSO	SPEED SIGNAL OPTION (NO HARNESS)
FRC	FUSE AND RELAY CENTER	SV	SUNVISOR
HL	HEADLIGHT	SW	STEERING WHEEL SWITCHES
IJ	ICON JUMPER	TBJ	TABLE LAMP JUMPER
LA	LIFT AXLE OVERLAY	TBP	TRANSMISSION BATTERY POWER
LK	DOOR LOCK OVERLAY	TL	TAILLIGHT
MC	MAIN CAB	TR	TRANSMISSION
MI	MARKER INTERRUPT	TSJ	TEMP SWITCH JUMPER
MJ	MIRROR JUMPER	TT	TRANSMISSION TEMP
OB	OVERHEAD BUNK	VA	REAR WALL VALANCE
OCP	OVERCRANK PROTECTION		
OF	OVERHEAD FRONT		

Harness Abbreviations (Examples)			
NAME	**HARNESS**	**NAME**	**HARNESS**
OPT	OPTION CONNECTOR IN DASH		
PHC	PREHEATER, CUMMINS		
PHV	PREHEATER, VOLVO		
PJ	PREHEAT JUMPER		

List of Connectors

Inline Connector	Location
B1-6:1	{BF 2 D}
B1-6:2	{BF 1 B}
B2:B2-1_1	{AB 3 B}
B2:B2-1_2	{BH 1 B}
B2:B2-2_1	{BH 0 D}
B2:B2-2_2	{BH 1 B}
B2:B2-3_1	{AC 3 C}
B2:B2-3_2	{AB 4 E}
B2:B2-5_2	{AB 4 D}
B3:R15_30	{DF 1 C}
B3:R15_85	{DF 1 B}
B3:R15_86	{DF 1 C}
B3:R15_87	{DF 1 B}
B3:R16_30	{BA 3 B}
B3:R16_85	{BA 3 C}
B3:R16_86	{BA 3 B}
B3:R16_87	{BA 3 C}
B3:R17_30	{BA 3 B}
B3:R17_85	{BA 3 B}
B3:R17_86	{BA 3 B}
B3:R17_87	{BA 3 B}
B3:R18_30	{DF 2 C}
B3:R18_85	{DF 2 B}
B3:R18_86	{DF 2 C}
B3:R18_87	{DF 2 B}
CERA2:1	{EA 0 D}
CERA2:3	{EA 1 D}
CERAJ1:A	{BD 2 B}
CERAJ1:B	{BD 2 C}
CERAJ1:C	{BC 3 B}
CERAJ2:A	{BD 2 B}
CERAJ2:B	{BD 3 C}
CERAJ2:C	{BC 3 B}
CETL:A	{GF 0 B}
CETL:B	{GF 1 B}
CETL:C	{GF 1 B}
CETL:D	{GF 2 B}
CETL:E	{GF 2 D}
DVAD:A	{FA 1 C} {FA 1 B}
DVAD:B	{FA 1 C} {FA 1 D}
DVDV:A	{FA 1 B}
DVDV:B	{FA 1 C}
ENBP:A	{AD 3 D}
ENBP:B	{BA 0 D}
ENBP:C	{BA 0 D}
ENFCJ:A	{CG 1 D}
ENFCJ:B	{CG 1 D}
ENOCP:A	{AA 4 B}
ENOCP:B	{AA 3 B}
ENPHC:A	{CD 0 C}
ENPHC:B	{CD 0 C}
ENPHC:C	{CD 0 B}
ENPHV:A	{CB 4 C}
ENPHV:B	{CB 2 D}
ENPTO:A	{DP 0 D}
ENPTO:B	{DP 0 D}
ENTSJ:A	{CG 0 C}
ENTSJ:B	{CG 0 B}
FCAD:A	{FA 2 D}
FCAD:B	{FA 2 B}
FCAR:A	{BD 1 C}
FCAR:B	{BD 0 B}
FCCE:A	{GF 0 B}
FCCE:B	{GF 1 B}
FCCE:C	{GF 1 B}
FCCE:D	{GF 2 A}
FCCE:E	{BD 2 C}
FCCE:F	{BC 3 B}
FCCE:G	{BC 3 B}
FCCE:H	{BD 2 D}
FCCE:J	{GF 2 D}
FCDV:A	{FA 1 B}
FCDV:B	{FA 0 D}
FCEN1:A	{XA 3 D}
FCEN1:B	{XA 0 D}
FCEN1:C	{BC 2 B}
FCEN1:D	{AD 3 C}
FCEN1:E	{BC 2 B}
FCEN1:F	{HA 1 C}
FCEN1:G	{AA 3 B}
FCEN1:H	{XA 3 D}
FCEN1:J	{XA 1 D}
FCEN1:K	{AA 3 B}
FCEN1:L	{FD 0 C} {FC 0 C}
FCEN1:M	{AD 1 B}
FCEN1:N	{DP 0 C}
FCEN1:P	{CC 3 C}
FCEN1:R	{BB 2 C}
FCEN1:S	{CC 3 C}
FCEN2:A	{CC 3 C}
FCEN2:B	{CC 3 C} {CD 4 C}
FCEN2:C	{CC 3 C} {CD 4 C}
FCEN2:D	{CC 3 C}
FCEN2:E	{CB 4 C}
FCEN2:F	{BA 0 C}
FCEN2:G	{CB 1 C}
FCEN2:H	{CC 2 C} {CI 3 C}
FCEN2:K	{BG 0 C}
FCEN2:L	{CC 4 C}
FCEN2:M	{CB 0 C}

FCEN2:N {CB 1 C}
FCEN2:P {CC 4 D} {CG 1 C}
FCEN2:R {CG 1 B}
FCFA:A {JB 0 D}
FCFA:B {JB 0 D}
FCFA:C {JB 0 D}
FCFA:D {JB 0 D}
FCFD1:A {GE 0 B}
FCFD1:B {GE 2 B}
FCFD1:C {GE 1 D}
FCFD2:A {GE 1 C}
FCFD2:B {GE 1 C}
FCFD2:C {GE 1 D}
FCFD3:A {GE 1 C}
FCFD3:B {GE 1 C}
FCFD3:C {GE 1 D}
FCHL:A {GD 3 B}
FCHL:B {GD 3 B}
FCHL:C {GD 0 B}
FCHL:D {GD 0 B}
FCHL:E {GD 1 B}
FCHL:F {GD 3 B}
FCHL:G {GD 2 B}
FCHL:H {GD 1 D}
FCHL:J {GD 3 D}
FCHL:K {BC 3 B}
FCHL:L {BC 2 A}
FCIJ:A {CC 0 B}
FCIJ:B {CC 0 B}
FCPJ:F {BA 0 C}
FCPJ:G {CB 1 C}
FCPJ:K {BG 0 C}
FCPJ:M {CB 0 C}
FCPJ:N {CB 1 C}
FCPTO:A {DP 4 D}
FCSPJ:A {FB 2 D}
FCSPJ:B {FB 2 D}
FCSPJ:C {FB 2 D}
FCSPJ:D {FB 2 C}
FCSPJ:F {FB 1 D}
FCSPJ:G {FB 2 D}
FCSPJ:H {FB 2 D}
FCSPJ1:B {FD 2 D}
FCSPJ1:C {FD 2 C}
FCSPJ1:D {FD 2 C}
FCSPJ1:E {FD 1 E}
FCSPJ1:H {FD 2 D}
FCSPJ2:E {FD 2 C}
FCSPJ3:A {FD 4 B}
FCSPJ3:B {FD 3 D}
FCSPJ3:C {FD 4 C}
FCSPJ3:D {FD 4 C}
FCSPJ3:E {FD 4 C}
FCSPJ3:F {GQ 2 C}
FCSPJ3:G {GQ 2 D}
FCSPJ3:H {FD 3 D}
FCSPJ4:A {FB 2 C}
FCSS:A {JB 1 D}
FCSS:B {JB 2 D}
FCSS:C {JB 1 D}
FCTR:A {XA 2 D}
FCTR:B {XA 4 D}
FRC:BI-4_2 {AA 4 E}
FRC:F1_B {IC 2 A}
FRC:F10_A {AB 3 C}
FRC:F10_B {GB 2 B}
FRC:F11_B {BF 1 B}
FRC:F12_B {AB 4 C}
FRC:F13_B {XA 2 B}
FRC:F15_B {AB 1 B}
FRC:F16_B {AB 2 B}
FRC:F17_B {GB 3 A}
FRC:F18_A {AB 2 B}
FRC:F18_B {GB 1 B}
FRC:F19_B {DC 0 B}
FRC:F2_B {KA 0 B} {KB 2 B} {KC 0 A}
FRC:F20_B {HB 1 B} {GI 3 B}
FRC:F21_A {CC 1 B} {CI 3 B}
FRC:F21_B {CC 1 C} {CI 3 C}
FRC:F22_B {CE 0 B}
FRC:F23_B {HA 0 B}
FRC:F24_B {BC 0 B}
FRC:F25_A {AA 1 D}
FRC:F25_B {IB 1 B}
FRC:F26_B {GP 0 B}
FRC:F27_B {FD 3 A} {FC 2 B}
FRC:F28_B {FD 1 A} {FC 1 B}
FRC:F29_B {BG 1 B} {JB 2 B}
FRC:F3_B {IC 1 A}
FRC:F30_B {IB 0 B}
FRC:F31_B {IB 1 B}
FRC:F32_A {AA 3 D}
FRC:F32_B {AA 3 E}
FRC:F33_B {GI 1 B}
FRC:F34_B {FE 1 B}
FRC:F35_B {GI 1 B}
FRC:F36_B {GB 3 B}
FRC:F37_A {GB 2 A}
FRC:F38_A {AA 0 C} {GB 3 A}
FRC:F39_B {GQ 0 B}
FRC:F4_A {AB 3 D}
FRC:F4_B {IC 3 A}
FRC:F40_B {BC 0 B} {KA 1 B} {KB 2 B} {KC 1 A}
FRC:F41_B {IF 2 B}
FRC:F42_B {IF 0 B}
FRC:F43_B {IE 1 B}
FRC:F44_A {AA 0 D}
FRC:F44_B {BE 0 B} {FB 0 B}
FRC:F45_B {IF 3 B}
FRC:F46_B {IE 3 B}
FRC:F47_B {GQ 2 B}
FRC:F49_B {NA 0 B}
FRC:F5_B {JC 0 B}
FRC:F50_B {NA 1 B}
FRC:F51_A {AA 1 D}
FRC:F51_B {NA 2 B}
FRC:F52_B {HB 1 B}
FRC:F53_B {HA 0 B}
FRC:F54_B {BH 1 B}
FRC:F56_B {FA 2 A}
FRC:F57_B {JA 0 B}
FRC:F59_A {AB 1 D}
FRC:F59_B {BE 1 B} {CH 0 B}
FRC:F6_B {AB 4 D}
FRC:F60_B {BG 1 B} {BH 1 B}
FRC:F61_B {EA 2 B}

FRC:F62_B {EA 2 B}
FRC:F63_B {FD 2 A} {FB 4 A}
FRC:F64_B {FD 3 A} {FB 3 A}
FRC:F65_B {GA 1 B}
FRC:F66_A {AB 2 D}
FRC:F66_B {BG 0 B}
FRC:F67_B {CG 1 B}
FRC:F68_B {IE 3 B}
FRC:F69_B {BF 1 B}
FRC:F72_A {AA 3 C}
FRC:F72_B {DB 0 A} {DC 0 B} {DD 1 B} {DG 1 A} {DF 1 B}
FRC:F73_B {CC 2 B}
FRC:F74_B {KA 0 B} {KB 2 B} {KC 0 A}
FRC:F75_B {DP 2 B}
FRC:F76_B {CF 2 A}
FRC:F77_A {DF 3 B}
FRC:F77_B {DF 3 B}
FRC:F78_A {DF 0 B}
FRC:F78_B {DF 0 B}
FRC:F79_A {BA 0 A}
FRC:F79_B {BA 0 A}
FRC:F8_B {GB 2 A}
FRC:F80_B {BA 1 B}
FRC:F81_B {BA 0 A}
FRC:F82_B {BA 0 A}
FRC:F9_B {MA 0 B}
FRC:R1_30 {AA 3 C}
FRC:R1_85 {AA 3 C}
FRC:R1_86 {AA 3 C}
FRC:R1_87 {AA 3 C}
FRC:R10_30 {GQ 0 B}
FRC:R10_85 {GQ 0 C}
FRC:R10_86 {GQ 0 C}
FRC:R10_87 {GQ 0 C}
FRC:R11_30 {IE 1 C}
FRC:R11_85 {IE 1 C}
FRC:R11_86 {IE 1 C}
FRC:R11_87 {IE 1 C}
FRC:R12_30 {GP 1 B}
FRC:R12_85 {GP 0 B}
FRC:R12_86 {GP 0 B}
FRC:R12_87 {GP 0 C}
FRC:R12_87A {GP 0 C}
FRC:R13_30 {DB 1 B} {DF 0 C}
FRC:R13_85 {DB 1 B} {DF 0 B}
FRC:R13_86 {DB 1 B} {DF 0 C}
FRC:R13_87 {DB 1 B} {DF 0 B}
FRC:R14_30 {DF 1 B}
FRC:R14_85 {DF 1 C}
FRC:R14_86 {DF 1 B}
FRC:R14_87 {DF 1 C}
FRC:R2_30 {GB 1 B}
FRC:R2_85 {GB 1 B}
FRC:R2_86 {GB 0 B}
FRC:R2_87 {GB 1 B}
FRC:R3_30 {GB 2 B}
FRC:R3_85 {GB 2 B}
FRC:R3_86 {GB 1 B}
FRC:R3_87 {GB 2 B}
FRC:R4_30 {BA 0 C}
FRC:R4_85 {BA 0 B}
FRC:R4_86 {BA 0 C}
FRC:R4_87 {BA 0 B}
FRC:R5_30 {HB 1 D} {CC 3 C} {FB 3 A}
FRC:R5_85 {HB 1 D} {CC 3 B} {FB 2 B}
FRC:R5_86 {HB 1 D} {CC 3 C} {FB 2 A}
FRC:R5_87 {HB 1 D} {CC 3 B} {FB 3 B}
FRC:R5_87A {HB 1 D} {FB 3 B}
FRC:R6_30 {CC 2 B} {CG 1 B}
FRC:R6_85 {CC 2 C} {CG 1 C}
FRC:R6_86 {CC 2 B} {CG 1 B}
FRC:R6_87 {CC 2 C} {CG 1 C}
FRC:R7_30 {DP 1 B}
FRC:R7_85 {DP 1 B}
FRC:R7_86 {DP 1 B}
FRC:R7_87 {DP 1 B}
FRC:R8_30 {CC 3 A}
FRC:R8_85 {CC 3 B}
FRC:R8_86 {CC 3 A}
FRC:R8_87 {CC 3 B}
FRC:R9_30 {MA 0 B}
FRC:R9_85 {MA 0 B}
FRC:R9_86 {MA 0 B}
FRC:R9_87 {MA 0 B}
LKDL:A {IE 2 B}
LKDL:B {IE 2 B}
LKDL:C {IE 3 C}
LKDL:D {IE 2 C}
LKDL:E {IE 2 C}
LKDR:A {IE 3 C}
LKDR:B {IE 3 C}
LKDR:C {IE 3 C}
MC141A:A {GB 1 A}
MC141A:B {DP 2 B}
MC141A:C {JC 3 A}
MC141A:E {DB 0 A} {DE 1 A}
MC141A:F {FE 2 A}
MC141A:G {FB 0 A}
MC141A:J {HB 0 A} {DE 2 A}
MC141A:K {GI 1 A}
MC141A-B:A {GB 1 A}
MC141A-B:B {FD 1 A} {FC 1 A}
MC141A-B:C {FD 2 A} {FB 3 A}
MC141A-B:D {FD 2 A} {FB 3 A}
MC141A-B:E {EA 3 A}
MC141A-B:H {CH 0 A}
MCALS:A {DE 1 B}
MCALS:B {DE 1 B}
MCALS:C {DE 1 B}
MCALS:D {DE 1 B}
MCALS:E {DE 1 B}
MCALS:F {DE 1 B}
MCALS:G {DE 1 B}
MCALS:H {DE 1 B}
MCALS:J {DE 1 B}
MCALS:K {DE 1 B}
MCALS:L {DE 1 B}
MCALS:M {DE 1 B}
MCALS:N {DE 1 B}
MCALS:P {DE 1 B}
MCAS1:A {DB 0 C}
MCAS1:B {DB 1 C}
MCAS1:C {DB 0 C}
MCAS1:D {DB 0 C}
MCAS1:E {DB 1 C}

MCAS1:F {DB 1 C}
MCAS1:G {DB 1 C}
MCAS1:H {DB 1 C}
MCAS1:J {DB 1 C}
MCAS1:K {DB 0 C}
MCAS1:L {DB 2 C}
MCAS1:M {DB 2 C}
MCAS2:A {DB 2 C}
MCAS2:B {DB 2 C}
MCAS2:C {DB 2 C}
MCAS2:D {DB 2 C}
MCAS2:E {DB 2 C}
MCAS2:F {DB 2 C}
MCAS2:G {DB 2 C}
MCAS2:H {DB 2 C}
MCAS2:J {DB 2 C}
MCAS3:A {DG 2 C}
MCAS3:B {DG 2 C}
MCAS3:D {DG 1 C}
MCAS3:E {DG 1 C}
MCAS3:F {DG 1 C}
MCAS3:G {DG 1 C}
MCAS3:H {DG 1 C}
MCAS4:B {DG 1 C}
MCAS4:D {DG 1 B}
MCAS4:E {DG 2 C}
MCAS4:F {DG 2 C}
MCAS4:K {DG 1 B}
MCAS4:L {DG 2 C}
MCAS4:M {DG 2 C}
MCAT1:A {DE 0 D}
MCAT1:B {DE 0 D}
MCAT1:C {DE 0 D}
MCAT1:D {DE 1 D}
MCAT1:E {DE 0 D}
MCAT1:F {DE 0 D}
MCAT1:G {DE 3 C}
MCAT1:H {DE 3 C}
MCAT1:J {DE 0 D}
MCAT1:K {DE 0 D}
MCAT1:L {DE 1 D}
MCAT1:M {DE 1 D}
MCAT1:N {DE 1 D}
MCAT1:P {DE 1 D}
MCAT1:R {DE 1 D}
MCAT1:S {DE 1 D}
MCAT2:A {DF 1 C}
MCAT2:B {DE 2 D}
MCAT2:C {DE 2 D}
MCAT2:D {DE 1 D}
MCAT2:E {DE 1 D}
MCAT2:F {DE 2 D}
MCAT2:G {DE 3 D}
MCAT2:H {DF 3 B}
MCAT2:J {DF 3 C}
MCAT2:K {DE 3 D}
MCAT2:L {DE 3 D}
MCAT2:M {DE 3 D}
MCAT2:N {DE 3 D}
MCAT2:P {DE 2 D}
MCAT2:R {DE 3 D}
MCAT2:S {DE 0 D}
MCBB:A {BI 1 B}
MCBB:B {BI 1 B}
MCBOC:A {GG 2 B} {GG 1 C} {GG 1 B}
MCBOC:B {GG 2 D} {GG 1 D} {GG 1 D}
MCCB:A {IF 3 C}
MCCB:B {IF 3 D}
MCDL2:A {IC 2 B}
MCDL2:B {IC 1 B}
MCDL2:C {IC 1 C}
MCDL2:D {IC 1 B}
MCDL2:E {IC 2 B}
MCDL2:F {IC 2 B}
MCDL2:G {IC 2 B}
MCDL2:H {IC 2 C}
MCDL3:A {IC 1 B}
MCDL3:B {IC 2 C}
MCDL3:D {IE 1 C}
MCDL3:E {IE 1 C}
MCDL3:F {IE 2 D}
MCDL3:G {IE 2 C}
MCDL4:A {KA 0 D} {KB 3 D} {KC 0 D}
MCDL4:B {KA 0 D} {KB 4 D} {KC 0 D}
MCDR2:A {IE 1 C}
MCDR2:B {IE 3 D}
MCDR2:C {IE 1 C}
MCDR2:D {IC 3 B}
MCDR2:E {IC 2 C}
MCDR2:F {IE 3 C}
MCDR3:A {KA 1 D} {KB 2 D} {KC 0 D}
MCDR3:B {KA 1 D} {KB 2 D} {KC 0 D}
MCEB1:A {BA 4 D}
MCEB1:B {CF 2 B}
MCEB1:C {BA 3 D}
MCEB1:D {BA 3 D}
MCEB1:E {BA 4 D} {CD 4 B}
MCEB1:F {BB 4 C}
MCEB1:G {BB 4 C}
MCEB1:H {CD 4 B}
MCEB2:A {CF 1 B}
MCEB2:B {CF 1 D}
MCFC:1 {BA 0 C}
MCFC:10 {GQ 2 D}
MCFC:100 {HA 1 D}
MCFC:101 {BG 0 C}
MCFC:11 {BC 2 D}
MCFC:12 {GQ 2 B}
MCFC:13 {GE 2 B}
MCFC:14 {GE 0 B}
MCFC:15 {GD 3 B}
MCFC:16 {GD 3 B}
MCFC:17 {GD 0 B}
MCFC:18 {GD 0 B}
MCFC:19 {BD 2 C}
MCFC:2 {MA 1 C}
MCFC:20 {BD 1 C}
MCFC:21 {BC 3 C}
MCFC:22 {BC 3 C}
MCFC:23 {GD 1 B}
MCFC:24 {GA 2 D}
MCFC:25 {GA 3 D}
MCFC:26 {GP 2 B}
MCFC:27 {GA 3 D}
MCFC:28 {BB 2 B}
MCFC:29 {BC 2 D}

MCFC:3 {CB 1 B}
MCFC:30 {EA 2 B}
MCFC:31 {EA 3 C}
MCFC:32 {CC 2 C} {BG 0 C}
MCFC:33 {XA 1 D}
MCFC:34 {XA 0 D}
MCFC:35 {GD 3 B}
MCFC:36 {HA 1 C}
MCFC:37 {CC 3 C} {BG 2 D}
MCFC:38 {FD 2 B} {FB 4 C}
MCFC:39 {FD 3 B} {FC 2 C}
MCFC:4 {MA 1 C}
MCFC:40 {EA 3 C}
MCFC:41 {FD 1 B} {FC 1 C}
MCFC:42 {FD 3 B} {FB 3 C}
MCFC:44 {JB 0 C} {FB 1 D}
MCFC:45 {JB 1 D} {FB 2 C}
MCFC:46 {CB 0 C}
MCFC:47 {FB 1 C}
MCFC:48 {MA 1 C}
MCFC:49 {MA 0 C}
MCFC:5 {CE 0 B}
MCFC:50 {DP 4 D} {JB 0 C}
MCFC:51 {JB 1 D} {FE 3 B}
MCFC:52 {JB 2 D} {FE 2 C}
MCFC:53 {JB 0 C} {FE 2 C}
MCFC:54 {AC 3 D}
MCFC:55 {AC 2 C}
MCFC:56 {JB 0 C} {CG 1 C}
MCFC:57 {CC 0 B} {FE 1 B}
MCFC:58 {DP 0 C}
MCFC:59 {CH 0 D}
MCFC:6 {FA 2 B}
MCFC:61 {BD 1 C}
MCFC:62 {CC 4 C} {CD 4 B}
MCFC:63 {BC 2 C}
MCFC:64 {BC 2 C}
MCFC:65 {CC 0 B} {BG 3 D}
MCFC:66 {BB 0 B}
MCFC:67 {CB 4 C}
MCFC:68 {CB 1 B}
MCFC:69 {BG 3 D}
MCFC:7 {EA 2 B}
MCFC:71 {BC 3 C}
MCFC:72 {CC 1 C} {CI 3 C}
MCFC:73 {CC 3 C}
MCFC:74 {CC 3 C}
MCFC:75 {GI 1 D}
MCFC:76 {GI 1 D}
MCFC:77 {GI 1 D}
MCFC:78 {GP 1 C}
MCFC:79 {GP 3 C} {GI 1 D}
MCFC:8 {EA 2 B}
MCFC:80 {GP 1 D}
MCFC:81 {GP 2 D}
MCFC:82 {GP 3 C}
MCFC:83 {XA 3 C}
MCFC:84 {XA 3 C}
MCFC:87 {FB 1 C}
MCFC:9 {GQ 0 D}
MCFC:91 {CC 4 C} {CD 4 B}
MCFC:92 {CC 3 C}
MCFC:93 {CC 2 C}
MCFC:94 {CG 1 B}
MCFC:95 {GD 2 B}
MCFC:96 {MA 1 C}
MCFC:97 {GA 2 D}
MCFC:98 {MA 0 C}
MCFC:99 {AD 3 B}
MCLA:A {FB 3 B}
MCLA:B {FB 1 C}
MCLA:C {FB 1 C}
MCLA:D {FB 2 C}
MCLA:E {FB 1 C}
MCLA:F {FB 0 B}
MCLA:G {FB 0 C}
MCLA:H {FB 0 B}
MCLK:A {IE 3 B}
MCLK:B {IE 3 B}
MCLK:C {IE 2 B}
MCLK:D {IE 3 B}
MCLK:E {IE 3 B}
MCMC:E {GA 3 B}
MCMC:F {GA 3 C}
MCMC:G {GA 3 C}
MCMI:E {JC 4 D}
MCMI:F {JC 3 D}
MCMI:H {JC 3 B}
MCMJ1:A {IC 4 C}
MCMJ2:A {IC 2 D}
MCMJ2:B {IC 3 B}
MCMJ2:C {IC 3 B}
MCMJ2:D {IC 3 B}
MCMJ3:A {IC 1 D}
MCMJ3:B {IC 1 B}
MCMJ3:C {IC 1 B}
MCMJ3:D {IC 1 B}
MCMJ4:A {IC 0 C}
MCOF1:A {IE 0 C}
MCOF1:B {IE 0 C}
MCOF1:C {GC 2 B}
MCOF1:D {GC 2 D}
MCOF1:E {IE 0 C}
MCPL:A {GI 2 C}
MCPL:B {GI 0 D}
MCPL:C {GI 2 C}
MCPL:D {GI 1 B}
MCPL:E {GI 1 B}
MCPL:F {GI 1 B}
MCPL:G {GI 0 D}
MCPL:H {GI 3 B}
MCPL2:A {GI 1 C}
MCPL2:B {GI 1 C}
MCPL2:C {GI 1 C}
MCPL2:D {GI 1 C}
MCPTO1:A {DP 2 D} {DP 1 C}
MCPTO1:B {DP 3 A}
MCPTO1:C {DP 3 D}
MCPTO1:D {DP 4 C}
MCPTO2:A {DP 2 D}
MCQC:A {BE 1 B}
MCQC:B {BE 0 B}
MCRJ:1 {KA 1 C}
MCRJ:10 {KA 1 B}
MCRJ:11 {KA 1 B}
MCRJ:12 {KA 2 C}

MCRJ:13 {KA 1 C}
MCRJ:2 {KA 1 C}
MCRJ:3 {KA 0 B}
MCRJ:4 {KA 1 B}
MCRJ:5 {KA 1 C}
MCRJ:6 {KA 0 C}
MCRJ:7 {KA 1 C}
MCRJ:8 {KA 1 C}
MCRJ:9 {KA 2 C}
MCRS:A {IF 2 C}
MCRS:B {IF 3 C}
MCRW:A {KB 1 D}
MCRW:B {KB 1 D}
MCRW:C {KB 1 D}
MCRW:D {KB 1 D}
MCSL1:A {CC 2 C}
MCSL1:B {HB 2 D}
MCSL1:C {HB 3 B}
MCSL1:D {HB 2 B}
MCSL1:E {HB 2 B}
MCSL1:F {HD 1 D} {HE 3 D}
MCSL1:G {CC 1 B}
MCSL1:H {HB 0 C}
MCSL1:J {HB 0 C}
MCSL1:L {HD 0 D} {HE 1 D}
MCSL1:M {BA 3 C}
MCSL2:A {KB 0 B} {KB 0 D} {KC 2 C}
MCSL2:B {KB 1 B} {KB 0 D} {KC 2 C}
MCSL2:C {KB 0 B} {KB 0 D} {KC 3 C}
MCSL2:D {KB 0 B} {KB 0 D} {KC 3 C}
MCSL2:E {CC 0 B}
MCSL2:F {CC 0 B}
MCSL3:A {HB 0 C}
MCSL3:C {AB 0 C}
MCSL3:D {HD 0 B} {HE 2 D}
MCSL3:E {HD 0 B} {HE 2 D}
MCSL3:F {HB 1 B}
MCSL3:G {HB 1 C}
MCSL3:H {HB 1 C}
MCSL5:B {HB 1 B}
MCSL5:C {HB 2 C}
MCSL6:A {GH 2 B} {GH 0 B}
MCSL6:B {GH 3 E} {GH 1 D}
MCSL7:A {IG 1 C}
MCSSO:C {BA 3 C}
MCSW:A {JC 0 B}
MCSW:B {JC 2 B}
MCSW:C {JC 2 C}
MCSW:D {JC 1 B}
MCSW:E {JC 0 C}
MCSW:F {JC 0 C}
MCSW:G {JC 1 C}
MCTL1:C {BJ 1 B}
MCTL2:C {BJ 1 B}
MCTR1:A {DB 3 C} {DC 0 B}
MCTR1:B {DB 3 C} {DC 0 B} {DD 1 B}
MCTR1:C {GA 2 C}
MCTR1:D {BC 4 C}
MCTR1:E {BB 0 C}
MCTR1:F {BB 0 C}
MCTR1:G {DB 3 C} {DC 1 D}
MCTR1:H {DB 3 C} {DC 1 D}
MCTR1:J {BC 4 C}
MCTR1:K {GA 0 C}
MCTR1:L {AD 4 C}
MCTR1:M {AD 4 C}
MCTR2:A {DB 3 C}
MCTR2:B {DB 3 C}
MCTR2:C {DB 3 C}
MCTR2:D {DB 3 C}
MCTR2:E {DB 3 C}
MCTR2:F {DB 2 B}
MCTR2:G {DB 2 B}
MCTR3:A {DG 1 D}
MCTR3:B {DG 1 D}
MCTR3:C {DG 1 D}
MCTR3:H {DG 1 C}
MCTR4:A {DG 2 D}
MCTR4:B {DG 2 D}
MCTR4:D {DG 1 D}
MCTR4:E {DG 1 D}
MCTR4:F {DG 2 D}
MCTR4:G {DG 2 D}
OBTBJ:A {HD 3 C}
OBTBJ:C {HD 3 E}
OFRFJ:A {GC 1 B}
OFRFJ:B {GC 1 D}
OFRS:A {IF 2 D}
OFSL:A {KC 2 D}
OFSL:B {KC 2 D}
OFSL:C {KC 2 D}
OFSL:D {KC 2 D}
OFSL:E {KC 3 D}
OFSL:F {KC 3 D}
OFSL:G {KC 3 D}
OFSL:H {KC 3 D}
OFSV:1 {GC 2 B}
OFSV:2 {GC 2 D}
OPT1:A {BF 3 C}
OPT1:B {BF 3 B}
OPT1587:A {XA 1 B}
OPT1587:B {XA 0 B}
OPT2:A {BH 1 D}
OPT2:B {BH 1 D}
OPT3:A {BI 3 A}
OPT3:B {BI 3 A}
OPT4:A {BE 1 D}
OPT4:B {BE 1 D}
OPT5:1 {XA 3 A}
OPT5:2 {XA 3 A}
PJEN:E {CB 4 D}
PJEN:F {BA 0 C}
PJEN:G {CB 1 C}
PJEN:K {BG 0 C}
PJEN:M {CB 0 C}
PJEN:N {CB 1 C}
PLSPO:A {GI 3 D}
PLSPO:B {GI 3 B}
PM1:1 {AA 1 B}
PM3:1 {AB 1 D}
PM3:2 {AA 0 B}
PM4:1 {AA 1 C}
PM4:2 {AB 1 A}
PM5:1 {AB 4 C}
PM5:2 {AA 1 C}
PM6:1 {AA 3 B}

PM6:2 {AB 3 C}
PM7:1 {HB 2 B} {BG 0 B}
PM7:2 {AA 1 D}
PM7:3 {MA 0 B}
PM7:4 {HB 1 B}
PM8:1 {AA 1 B}
PM8:2 {GB 3 B}
PM8:3 {HB 3 B}
PM8:4 {HB 2 B}
PM9:1 {AB 1 C}
PM9:2 {AB 3 D}
PM9:4 {AA 1 C}
PM9:6 {AB 1 C}
PM9:7 {AA 1 C}
PM9:8 {AB 0 C}
PSMC:1 {KC 2 D}
PSMC:10 {KC 2 A}
PSMC:11 {KC 1 A}
PSMC:12 {KC 1 D}
PSMC:13 {KC 2 D}
PSMC:2 {KC 1 D}
PSMC:3 {KC 0 B}
PSMC:4 {KC 2 A}
PSMC:5 {KC 1 D}
PSMC:6 {KC 0 D}
PSMC:7 {KC 1 D}
PSMC:8 {KC 1 D}
PSMC:9 {KC 4 C}
PSMC2:A {KC 2 C}
PSMC2:B {KC 3 C}
PSMC2:C {KC 2 C}
PSMC2:D {KC 3 C}
PSOF:A {KC 2 C}
PSOF:B {KC 2 C}
PSOF:C {KC 3 C}
PSOF:D {KC 3 C}
PSOF:E {KC 1 C}
PSOF:F {KC 1 C}
PSOF:G {KC 1 C}
PSOF:H {KC 1 C}
PSOF:J {KC 0 B}
PSOF2:A {KC 1 C}
PSOF2:B {KC 1 C}
PSOF2:C {KC 2 C}
PSOF2:D {KC 2 C}
PSOF2:E {KC 0 C}
PSOF2:F {KC 1 C}
PSOF2:G {KC 1 C}
PSOF2:H {KC 1 C}
PSRJ:1 {KC 1 B}
PSRJ:10 {KC 2 A}
PSRJ:11 {KC 1 A}
PSRJ:12 {KC 1 B}
PSRJ:13 {KC 1 B}
PSRJ:2 {KC 1 B}
PSRJ:3 {KC 1 A}
PSRJ:4 {KC 2 A}
PSRJ:5 {KC 3 B}
PSRJ:6 {KC 2 B}
PSRJ:7 {KC 3 B}
PSRJ:8 {KC 2 B}
PSRJ:9 {KC 3 B}
RADLR:A {BD 2 B}
RADLR:B {BD 2 B}
RFJRF:A {GC 0 B}
RFJRF:B {GC 0 C}
RJDLR:A {BD 2 B}
RJDLR:B {BD 2 B}
RSCB:A {IF 3 C}
RSCB:B {IF 3 D}
RWBOC:A {GH 2 B} {GH 3 B} {GH 3 B}
RWBOC:B {GH 3 C} {GH 2 C} {GH 3 D}
SLBOC:A {GH 1 B} {GH 1 B} {GH 0 B}
SLBOC:B {GH 0 C} {GH 1 C} {GH 1 C}
SLOB:A {HD 3 C}
SLOB:B {HD 3 C}
SLOB:C {HD 1 B}
SLOB:D {HD 2 B}
SLOB:E {HD 1 B}
SLOB:F {HD 2 D}
SLOB:G {KB 0 B}
SLOB:H {KB 1 B}
SLOB:J {KB 0 B}
SLOB:K {KB 0 B}
SLOB:L {IG 0 B}
SLOB:M {IG 1 B}
SLRH:A {KC 3 C}
SLRH:B {KC 3 C}
SLRH:C {KC 2 C}
SLRH:D {KC 2 C}
SLRW:A {HE 4 D}
SLRW:B {GH 2 B}
SLRW:C {GH 3 E}
SLSK:A {HE 0 B}
SLSK:B {HE 1 E}
SLVA:A {HE 3 B}
SLVA:B {HE 3 B}
SLVA:C {HE 3 C}
SPMC:1 {KB 2 D}
SPMC:10 {KB 3 B}
SPMC:11 {KB 2 B}
SPMC:12 {KB 3 D}
SPMC:13 {KB 2 D}
SPMC:2 {KB 3 D}
SPMC:3 {KB 2 B}
SPMC:4 {KB 2 B}
SPMC:5 {KB 2 D}
SPMC:6 {KB 3 D}
SPMC:7 {KB 4 D}
SPMC:8 {KB 2 D}
SPMC:9 {KB 4 C}
SPMC2:A {KB 1 C}
SPMC2:B {KB 1 C}
SPMC2:C {KB 1 C}
SPMC2:D {KB 1 D}
SPRJ:1 {KB 3 C}
SPRJ:10 {KB 3 B}
SPRJ:11 {KB 2 B}
SPRJ:12 {KB 3 C}
SPRJ:13 {KB 3 C}
SPRJ:2 {KB 3 C}
SPRJ:3 {KB 2 B}
SPRJ:4 {KB 2 B}
SPRJ:5 {KB 2 C}
SPRJ:6 {KB 2 C}
SPRJ:7 {KB 2 C}

SPRJ:8 {KB 2 C}
SPRJ:9 {KB 3 C}
TLTL:A {GF 1 B}
TLTL:B {GF 1 B}
TLTL:C {GF 3 B}
TLTL:D {GF 3 B}
TLTL:E {GF 3 D}
TRSN:A {DC 2 D}
TRSN:B {DC 2 D}
TRSN:C {DC 2 D}
TRTBP:A {DB 4 C} {DG 0 C} {DF 3 D}
TRTBP:B {DB 4 E} {DG 0 C} {DF 4 D}
TRTBP:C {DF 3 D}
TRTT:A {BC 4 B}
TRTT:B {BC 4 B}
SP0_1 {AC 3 C}
SP0A {GH 1 D}
SP0A_1 {GH 3 D}
SP0-B {GF 0 D}
SP0B {AC 2 C}
SP0B1 {HB 2 D}
SP0B2 {HD 0 D} {HE 1 C}
SP0B3 {HE 3 D}
SP0B3_1 {HD 2 D}
SP0B3_2 {HD 2 D}
SP0B-PT {DP 3 C}
SP0C {AC 3 B}
SP0C_1 {IF 2 D}
SP0C_3 {HD 3 D}
SP0C_4 {FE 2 D}
SP0C_6 {BC 2 D}
SP0C1 {HE 3 C}
SP0C-24 {AC 0 B}
SP0C-7 {IE 3 D}
SP0C-7_1 {AC 1 C}
SP0C-9 {IE 2 D}
SP0D {GD 4 D}
SP0D_1 {GI 3 C}
SP0D-A_1 {BD 2 C}
SP0D-A_2 {BD 3 B}
SP0D-B {BD 2 C}
SP0F {BC 2 D}
SP0G_1 {AD 0 C}
SP0GS {GI 0 D}
SP0H_1 {GD 1 C}
SP0H_2 {GD 2 C}
SP0H-C {AC 2 D}
SP0L {HE 1 D}
SP0L-B {GG 2 D} {GH 1 C} {GH 3 C}
SP0M {GE 1 D}
SP0M_1 {GC 2 C}
SP0M_2 {GC 3 C}
SP0M_3 {GE 3 B}
SP0M_4 {GC 0 C}
SP0M-A {GE 1 D}
SP0M-D {GF 2 D}
SP0M-D_1 {GF 3 D}
SP0MD_2 {GF 2 D}
SP0M-E {GF 1 D}
SP0P1 {HA 1 C}
SP0R {FA 3 C}
SP0R_1 {FA 0 D}
SP0R_2 {FA 1 C}
SP0R1 {DP 2 D}
SP0R-G {AC 0 D}
SP0T {BF 1 D}
SP0TS {HA 3 C}
SP0V {CD 0 B}
SP0X {AD 4 D}
SP0X_1 {AD 3 D}
SP0X_2 {BI 1 B}
SP0XD {IE 3 B}
SP0XE {AD 3 D}
SP0XL {GB 1 D}
SP0Y {DG 0 D}
SP112C {MA 1 C}
SP113C {MA 1 C}
SP115 {GF 1 C}
SP115_1 {GF 2 B}
SP116 {GF 2 C}
SP116_1 {GF 3 A}
SP116A {DE 2 D}
SP131 {HE 3 B}
SP131_1 {IE 0 D}
SP131_2 {HD 3 D}
SP132 {HD 2 C}
SP135 {HD 3 B}
SP137-A {GG 2 C} {GH 3 B} {GH 1 B}
SP141A {GB 0 B}
SP141A-5 {HB 0 B}
SP141A-PT {DP 3 B}
SP141B {IF 1 C}
SP150 {HA 0 B}
SP163 {HB 2 C}
SP17B {CD 2 B}
SP17B_1 {CC 2 C}
SP17B_2 {CI 1 E}
SP17F {DG 0 D}
SP18E {CB 1 C}
SP196AA {AA 1 D}
SP196AB {AB 1 D}
SP196D {CC 3 B}
SP196DR {CC 2 C}
SP196L {GA 1 B}
SP196X {FE 1 B}
SP196X-B {FE 1 C}
SP1E {AA 1 D}
SP284 {AA 3 A}
SP284-A {BB 0 B}
SP284D {DB 0 A}
SP32SP-L {GI 1 C}
SP336 {IB 1 C}
SP33SP {GI 0 C}
SP35 {GE 0 C}
SP35_1 {GE 1 B}
SP35_2 {GE 0 B}
SP364 {CB 3 C}
SP37 {GE 2 C}
SP37_1 {GE 1 B}
SP37_2 {GE 3 B}
SP370 {IF 0 C}
SP370A {HE 0 C}
SP384 {GP 0 C}
SP385 {GP 0 D}
SP387 {GP 1 C}
SP400 {XA 0 D}

SP400_1 {XA 0 C}
SP400_2 {BF 3 B}
SP400_3 {BE 1 D}
SP400_BB {BI 3 B}
SP400-B {BH 1 D}
SP400-L {XA 0 D}
SP401 {XA 1 D}
SP401_1 {XA 1 C}
SP401_2 {BF 3 C}
SP401_3 {BE 1 D}
SP401_BB {BI 3 B}
SP401-B {BH 1 D}
SP401-L {XA 1 D}
SP406 {XA 3 D}
SP406_1 {XA 3 C}
SP406_2 {CC 0 C}
SP406_A {CI 2 C}
SP406_BB {BI 2 B}
SP406-A {XA 3 A}
SP406-F {XA 3 B}
SP406-F_1 {XA 2 D}
SP406-J {XA 3 B}
SP406-K {XA 3 C}
SP406-L {XA 3 D}
SP406-M {XA 3 B}
SP406-N {CD 3 C}
SP407 {XA 3 D}
SP407_1 {XA 3 C}
SP407_2 {CC 0 C}
SP407_A {CI 2 C}
SP407_BB {BI 2 B}
SP407-A {XA 3 A}
SP407-F {XA 3 B}
SP407-F_1 {XA 4 D}
SP407-J {XA 3 B}
SP407-K {XA 3 C}
SP407-L {XA 3 D}
SP407-M {XA 3 B}
SP407-N {CD 3 C}
SP408 {JC 1 C}
SP409 {JC 1 B}
SP410 {GA 3 D}
SP410_1 {GF 2 C}
SP410-AB {BG 1 C}
SP426 {BD 2 C}
SP472 {FB 1 B}
SP490 {KC 0 B}
SP490_1 {KC 0 C}
SP491 {IF 3 B}
SP498LR- {KC 2 B}
SP498LR+ {KC 2 B}
SP498RR- {KC 3 B}
SP498RR+ {KC 3 B}
SP499LF- {KA 2 D} {KB 3 D} {KC 1 D}
SP499LF-_1 {KB 4 C}
SP499LF+ {KA 2 D} {KB 3 D} {KC 1 D}
SP499LF+_1 {KB 3 C}
SP499RF- {KA 2 D} {KB 2 D} {KC 2 D}
SP499RF-_1 {KB 2 C}
SP499RF+ {KA 1 D} {KB 2 D} {KC 2 D}
SP499RF+_1 {KB 2 C}
SP501 {IE 1 B}
SP505 {IE 0 C}
SP52_1 {GC 2 B}
SP52_2 {GC 3 B}
SP52_3 {GC 0 C}
SP552 {BB 4 B}
SP554 {BB 4 B}
SP558 {BB 3 B}
SP559L {CC 0 D} {CI 0 D}
SP56 {GD 2 B}
SP562A {BA 2 B}
SP563A {BA 2 C}
SP564A {BA 1 C}
SP56F {GA 2 D}
SP56F_1 {GD 2 B}
SP56F_2 {GD 3 D}
SP573 {DP 1 C}
SP59 {GI 3 C}
SP592A {CB 2 C}
SP592B {CB 1 C}
SP597 {BA 2 C}
SP639 {DP 1 C}
SP639A {DP 2 B}
SP639-B {DP 3 B}
SP700 {IC 2 D}
SP710 {IE 3 B}
SP75 {GB 1 B}
SP774 {EA 2 B}
SP817_1 {DB 2 D}
SP817_2 {DB 2 C}
SP817_3 {DB 2 C}
SP817_4 {DB 3 C}
SP817_5 {DB 3 C}
SP817_6 {DB 3 D}
SP818 {DG 1 B}
SP90 {GF 1 C}
SP90_1 {GF 3 B}
SP909B {CC 3 D}
SP90A-A {BH 2 C}
SP90-C {GF 1 C}
SP952 {FA 3 C}
SP952_1 {FA 1 B}
SP952_2 {FA 1 C}
SP962 {BA 4 C}
SP962-D {BA 3 C}
SPA124 {DE 1 C}
SPA135A {DE 1 D}
SPA140A {DE 2 D}
SPA143 {DF 0 A}
SPA146 {DF 3 B}
SPA149A {DE 2 D}
SPA161 {DF 2 C}
SPABS {AC 2 D}
SPAUX-0 {NA 3 D} {NA 2 D} {NA 1 D}
SPNEU {DF 0 C}
SPV0C {JB 1 C}
SPV196C {JB 1 C}

Glossary

ABS	Antilock brake system
ATC	Automatic temperature control
AUXSW-6	Wiring for six auxiliary switches for body building
AWD	All wheel drive
BBM	Body builder module
BBOX	Battery box
CLU	Central locking unit
CU-BAS	Basic version with stepper motor without air condition
CU-ECC	Electronic controlled climate control air condition
CU-HEAT	Heater unit
CU-MCC	Manual controlled climate control air condition
EBR-EPG	EPG (Exhaust Pressure Governor)
EBR-EXH	Exhaust Brake
EBR-VEB	Volvo Engine Brake
ELCE-CK	Electrical complete kit for body builder
ENG-VE12	Volvo engine 12 liter
HL-BASIC	Basic headlamps
LCM	Light control module
L1H1	Day cab
L3H1	Medium cab, VN430
L4H2	Long high cab, VN630
L4H4	Long high cab, VN670
L5	Long high cab, VN780
LECM	Living Environment Control Module (Sleeper Control Panel)
LF	Left front
LHD	Left hand drive
LH	Left hand side
LR	Left rear
MECHTRAN	Mechanical transmission
MUF-HOR	Horizontal muffler
PH-CAB	Cab parking heater
PTO	Power take off
RCU	Remote control unit
RF	Right front
RHD	Right hand drive
RH	Right hand side
RR	Right rear
SRS	Supplementary restraint system
STWPOS-L	Steering wheel position left hand side
STWPOS-R	Steering wheel position right hand side
SWM	Steering wheel module
TL	Tail lamps
VECU	Vehicle electronic control unit
VL or VAL	Volvo Link Satellite Communication System

Wire Color Codes

BL	Blue
BN	Brown
GN	Green
GR	Grey
OR	Orange
P	Pink
R	Red
SB	Black
VO	Violet
W	White
Y	Yellow

Note: If a wire has two colors, it is written like the following example: Y/R = Yellow/Red.

Feedback

One of our objectives is that workshop personnel should have access to correct and appropriate service manuals where it concerns fault tracing, repairs and maintenance of Volvo trucks.
In order to maintain the high standards of our literature, your opinions and experience when using this manual would be greatly appreciated.
If you have any comments or suggestions, make a copy of this page, write down your comments and send them to us, either via telefax or mailing directly to the address listed below.

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Comments/proposals

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